

# sunny ultraviolet skunk

====REGION=undefined

====VERSION=1.0.2.98

====NAME=sunny-ultraviolet-skunk

2022-06-27 17:32:15.506 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 17:32:21.648 1 [info]

<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for peerbook <0.1643.0>

2022-06-27 17:32:22.017 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.13.130.184":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 17:32:22.294 1 [info] <0.28744.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 17:32:22.295 1 [info] <0.28744.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"3.13.130.184">>,http\_connection => <0.28743.0>,scheme =>

<<"http">>,encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

IMAGE

STATUS PORTS

COMMAND

NAMES

quay.io/team-helium/miner:miner-arm64\_2022.06.09.0\_GA

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[],[]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 17:32:22.578 1 [error]

<0.28743.0>@http2\_client:handle\_settings:822 gen\_server <0.28743.0>

terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 17:32:22.579 1 [error]

<0.28743.0>@http2\_client:handle\_settings:822 CRASH REPORT Process

<0.28743.0> with 0 neighbours crashed with reason: no function clause matching

http2\_client:handle\_settings([], 0,

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<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:32:22.580 1 [error] <0.28744.0>@Undefined:Undefined:Undefined
gen_server <0.28744.0> terminated with reason: connection_down
2022-06-27 17:32:22.580 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28744.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:32:22.580 1 [error] <0.28744.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28744.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:32:22.581 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:32:22.582 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:32:22.582 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:32:22.585 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28743.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4349>,socket_mon =>
#Ref<0.155928093.3973316610.235437>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28744.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}
2022-06-27 17:32:22.585 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28744.0>,connection_down}
2022-06-27 17:32:25.659 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:32:31.797 1 [warning]
<0.1639.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
112fDR1ezt7fsbNFUtDi1njUKt2ecaKvwurnZkKjb3rZuptmt4S8": [{"/
ip4/73.70.76.102/tcp/44158",timeout}]
2022-06-27 17:32:32.585 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:32:32.783 1 [info] <0.28748.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:32:32.785 1 [info] <0.28748.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.28747.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 17:32:32.980 1 [error]
<0.28747.0>@http2_client:handle_settings:822 gen_server <0.28747.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:32:32.982 1 [error]
<0.28747.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.28747.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:32:32.982 1 [error] <0.28748.0>@Undefined:Undefined:Undefined
gen_server <0.28748.0> terminated with reason: connection_down
2022-06-27 17:32:32.983 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28748.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:32:32.983 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:32:32.983 1 [error] <0.28748.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28748.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:32:32.983 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:32:32.983 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```



2022-06-27 17:32:32.985 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28747.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4355>,socket_mon =>
#Ref<0.155928093.3973316610.235542>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28748.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 17:32:32.986 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28748.0>,connection_down}
```

2022-06-27 17:32:35.802 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 17:32:36.349 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:32:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

```
2022-06-27 17:32:36.350 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 17:32:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:32:36.351 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4310,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:32:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:32:42.986 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:32:43.208 1 [info] <0.28751.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:32:43.210 1 [info] <0.28751.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.28750.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:32:43.423 1 [error]
<0.28750.0>@http2_client:handle_settings:822 gen_server <0.28750.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:32:43.425 1 [error]
<0.28750.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.28750.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:32:43.426 1 [error] <0.28751.0>@Undefined:Undefined:Undefined
gen_server <0.28751.0> terminated with reason: connection_down
2022-06-27 17:32:43.426 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28751.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:32:43.427 1 [error] <0.28751.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28751.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:32:43.427 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:32:43.428 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:32:43.428 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:32:43.432 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28750.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4356>,socket_mon =>
#Ref<0.155928093.3973840897.219414>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.28751.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>]],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]]}
2022-06-27 17:32:43.433 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28751.0>,connection_down}
2022-06-27 17:32:45.950 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:32:53.431 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:32:53.497 1 [info] <0.28761.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:32:53.498 1 [info] <0.28761.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.28760.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:32:53.559 1 [error]
<0.28760.0>@http2_client:handle_settings:822 gen_server <0.28760.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:32:53.561 1 [error]
<0.28760.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.28760.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 17:32:53.561 1 [error] <0.28761.0>@Undefined:Undefined:Undefined
gen_server <0.28761.0> terminated with reason: connection_down
2022-06-27 17:32:53.562 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28761.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:32:53.562 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:32:53.562 1 [error] <0.28761.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28761.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:32:53.562 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:32:53.563 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:32:53.564 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28760.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4357>,socket_mon =>
#Ref<0.155928093.3973316611.131955>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28761.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 17:32:53.564 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28761.0>,connection_down}
2022-06-27 17:32:56.100 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:33:03.565 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:33:06.232 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:33:06.355 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:33:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:33:06.355 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:33:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:33:06.356 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4314,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 17:33:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:33:16.380 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:33:26.509 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:33:33.569 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}]
2022-06-27 17:33:33.570 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:33:33.571 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28772.0>,timeout}
2022-06-27 17:33:33.572 1 [error] <0.28772.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28772.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 17:33:36.358 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:33:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:33:36.359 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:33:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:33:36.360 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4317,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:33:36 GMT">>,<<"txnb">> => 0}
```

```
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:33:36.669 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:33:43.572 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:33:43.789 1 [info] <0.28780.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:33:43.790 1 [info] <0.28780.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.28779.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:33:44.001 1 [error]
<0.28779.0>@http2_client:handle_settings:822 gen_server <0.28779.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:33:44.002 1 [error]
<0.28779.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.28779.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:33:44.002 1 [error] <0.28780.0>@Undefined:Undefined:Undefined
gen_server <0.28780.0> terminated with reason: connection_down
2022-06-27 17:33:44.003 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28780.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```



```
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 17:33:44.003 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:33:44.003 1 [error] <0.28780.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28780.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:33:44.003 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:33:44.003 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:33:44.005 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28779.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4359>,socket_mon =>
#Ref<0.155928093.3973840897.220465>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28780.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 17:33:44.006 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28780.0>,connection_down}
2022-06-27 17:33:46.806 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:33:48.254 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11ejbwfBvKb8ohzSmaUuSSTsS6x38NstQw96r3v1T7k2q5ajr65" informed us of our
observed address "/ip4/80.77.186.186/tcp/6167"
2022-06-27 17:33:52.603 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112k14NoY6cTQedJAnLDBNE5aMdGR3H3j4pMhqHjVfthoniF1uvEo" informed us of
our observed address "/ip4/80.77.186.186/tcp/8134"
2022-06-27 17:33:54.005 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:33:54.225 1 [info] <0.28816.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:33:54.226 1 [info] <0.28816.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.28815.0>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:33:54.440 1 [error]
<0.28815.0>@http2_client:handle_settings:822 gen_server <0.28815.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:33:54.441 1 [error]
<0.28815.0>@http2_client:handle_settings:822 CRASH REPORT Process
```

```
<0.28815.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:33:54.441 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28816.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:33:54.442 1 [error] <0.28816.0>@Undefined:Undefined:Undefined
gen_server <0.28816.0> terminated with reason: connection_down
2022-06-27 17:33:54.442 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:33:54.442 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:33:54.442 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:33:54.442 1 [error] <0.28816.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28816.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:33:54.444 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28815.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {56,
{<<":authority">>,<<"52.220.227.216">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4370>,socket_mon =>
#Ref<0.155928093.3973840897.220845>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28816.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 17:33:54.445 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28816.0>,connection_down}
2022-06-27 17:33:56.966 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:34:04.445 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:34:04.702 1 [info] <0.28845.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:34:04.704 1 [info] <0.28845.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.28844.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:34:04.763 1 [notice]
<0.28846.0>@libp2p_multistream_server:handle_info:{108,13} Failed to
```

```
handshake client "/ip4/192.168.5.233/tcp/48796": closed
2022-06-27 17:34:04.955 1 [error]
<0.28844.0>@http2_client:handle_settings:822 gen_server <0.28844.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:34:04.956 1 [error]
<0.28844.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.28844.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:34:04.956 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28845.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:34:04.956 1 [error]
<0.28845.0>@Undefined:Undefined:Undefined gen_server <0.28845.0>
terminated with reason: connection_down
2022-06-27 17:34:04.956 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:34:04.957 1 [error] <0.28845.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28845.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:34:04.957 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:34:04.957 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 17:34:04.958 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.28844.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {56, {<<":authority">>,<<"18.228.115.118">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "18.228.115.118",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4375>,socket\_mon => #Ref<0.155928093.3973316610.236456>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.28845.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}]}  
2022-06-27 17:34:04.959 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.28845.0>,connection\_down}  
2022-06-27 17:34:05.423 1 [notice]  
<0.28852.0>@libp2p\_multistream\_server:handle\_info:{108,13} Failed to handshake client "/ip4/192.168.5.233/tcp/48808": closed  
2022-06-27 17:34:06.356 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 17:34:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 17:34:06.357 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:

```
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:34:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:34:06.360 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4321,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:34:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:34:07.103 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:34:14.960 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:34:15.105 1 [info] <0.28855.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:34:15.106 1 [info] <0.28855.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.28854.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:34:15.243 1 [error]
<0.28854.0>@http2_client:handle_settings:822 gen_server <0.28854.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:34:15.245 1 [error]
<0.28854.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.28854.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:34:15.246 1 [error] <0.28855.0>@Undefined:Undefined:Undefined
```

```
gen_server <0.28855.0> terminated with reason: connection_down
2022-06-27 17:34:15.246 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28855.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:34:15.246 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:34:15.246 1 [error] <0.28855.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28855.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:34:15.247 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:34:15.247 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:34:15.249 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28854.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```



```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4379>,socket_mon =>
#Ref<0.155928093.3973316610.236646>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28855.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 17:34:15.250 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28855.0>,connection_down}
2022-06-27 17:34:17.262 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:34:25.250 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:34:25.464 1 [info] <0.28863.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:34:25.465 1 [info] <0.28863.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.28862.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:34:25.674 1 [error]
<0.28862.0>@http2_client:handle_settings:822 gen_server <0.28862.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:34:25.677 1 [error]
```

```
<0.28862.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.28862.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:34:25.677 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28863.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:34:25.678 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:34:25.678 1 [error] <0.28863.0>@Undefined:Undefined:Undefined
gen_server <0.28863.0> terminated with reason: connection_down
2022-06-27 17:34:25.679 1 [error] <0.28863.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28863.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:34:25.680 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:34:25.680 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:34:25.682 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28862.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.89.130.114">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4380>,socket_mon =>
#Ref<0.155928093.3973316611.132438>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28863.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 17:34:25.683 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28863.0>,connection_down}
2022-06-27 17:34:27.412 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:34:35.683 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:34:35.839 1 [info] <0.28866.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:34:35.842 1 [info] <0.28866.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.28865.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:34:35.987 1 [error]
```

```
<0.28865.0>@http2_client:handle_settings:822 gen_server <0.28865.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:34:35.988 1 [error]
<0.28865.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.28865.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:34:35.989 1 [error]
<0.28866.0>@Undefined:Undefined:Undefined gen_server <0.28866.0>
terminated with reason: connection_down
2022-06-27 17:34:35.990 1 [error]
<0.28866.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.28866.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 17:34:35.990 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28866.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:34:35.990 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:34:35.991 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:34:35.992 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 17:34:35.994 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28865.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4381>,socket_mon =>
#Ref<0.155928093.3973316611.132494>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28866.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:34:35.995 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28866.0>,connection_down}
2022-06-27 17:34:36.363 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:34:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:34:36.364 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:34:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:34:36.366 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
```

```
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4325,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:34:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:34:37.556 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:34:45.995 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:34:46.216 1 [info] <0.28869.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:34:46.217 1 [info] <0.28869.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.28868.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:34:46.435 1 [error]
<0.28868.0>@http2_client:handle_settings:822 gen_server <0.28868.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:34:46.437 1 [error]
<0.28868.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.28868.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:34:46.438 1 [error]
<0.28869.0>@Undefined:Undefined:Undefined gen_server <0.28869.0>
terminated with reason: connection_down
2022-06-27 17:34:46.439 1 [error]
<0.28869.0>@Undefined:Undefined:Undefined CRASH REPORT Process
```

```
<0.28869.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 17:34:46.440 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28869.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:34:46.440 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:34:46.442 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:34:46.442 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:34:46.445 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28868.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},server_window => 65528,socket => #Port<0.4382>,socket_mon =>
#Ref<0.155928093.3973316610.236903>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28869.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 17:34:46.446 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28869.0>,connection_down}
2022-06-27 17:34:47.712 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:34:56.445 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:34:56.611 1 [info] <0.28878.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:34:56.612 1 [info] <0.28878.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.28877.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:34:57.866 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:34:57.900 1 [error]
<0.28877.0>@http2_client:handle_settings:822 gen_server <0.28877.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```



2022-06-27 17:34:57.901 1 [error] <0.28877.0>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.28877.0> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 17:34:57.902 1 [error] <0.28878.0>@Undefined:Undefined:Undefined  
gen\_server <0.28878.0> terminated with reason: connection\_down

2022-06-27 17:34:57.902 1 [error] <0.28878.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.28878.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 17:34:57.902 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.28878.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]]

2022-06-27 17:34:57.902 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 17:34:57.903 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 17:34:57.903 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 17:34:57.904 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.28877.0>,{function\_clause,  
[{"http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4383>,socket_mon =>
#Ref<0.155928093.3973316610.236985>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28878.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 17:34:57.905 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28878.0>,connection_down}
2022-06-27 17:35:06.364 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:35:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:35:06.365 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:35:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:35:06.366 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4329,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:35:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:35:07.906 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
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```
{gateway_validators_req_v1_pb,1}
2022-06-27 17:35:08.012 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:35:08.121 1 [info] <0.28892.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:35:08.122 1 [info] <0.28892.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.28891.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:35:08.329 1 [error]
<0.28891.0>@http2_client:handle_settings:822 gen_server <0.28891.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:35:08.330 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28892.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:35:08.330 1 [error]
<0.28891.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.28891.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 17:35:08.330 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:35:08.330 1 [error] <0.28892.0>@Undefined:Undefined:Undefined
gen_server <0.28892.0> terminated with reason: connection_down
2022-06-27 17:35:08.331 1 [error] <0.28892.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28892.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:35:08.331 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:35:08.331 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:35:08.333 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28891.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4384>,socket_mon =>
#Ref<0.155928093.3973316611.132654>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28892.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

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{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}}
2022-06-27 17:35:08.333 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28892.0>,connection_down}
2022-06-27 17:35:18.169 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:35:18.334 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:35:18.558 1 [info] <0.28903.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:35:18.561 1 [info] <0.28903.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.28902.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:35:18.776 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28903.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[[file,"gen_server.erl"],{line,247}]],
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]],{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 17:35:18.776 1 [error]
<0.28902.0>@http2_client:handle_settings:822 gen_server <0.28902.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

4096,initial\_window\_size => ...,...,...) line 822  
2022-06-27 17:35:18.777 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 17:35:18.778 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 17:35:18.779 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 17:35:18.779 1 [error]  
<0.28902.0>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.28902.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...) line 822  
2022-06-27 17:35:18.779 1 [error] <0.28903.0>@Undefined:Undefined:Undefined  
gen\_server <0.28903.0> terminated with reason: connection\_down  
2022-06-27 17:35:18.780 1 [error] <0.28903.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.28903.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 17:35:18.783 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.28902.0>,{function\_clause,  
[http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,  
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "54.251.77.229",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4385>,socket\_mon =>  
#Ref<0.155928093.3973316610.237115>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.28903.0>,server\_window => 65528,state =>

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:35:18.784 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28903.0>,connection_down}
2022-06-27 17:35:28.326 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:35:28.781 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:35:36.361 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:35:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:35:36.362 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:35:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:35:36.363 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4333,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:35:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:35:38.480 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:35:48.629 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:35:58.773 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 17:35:58.786 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}]
2022-06-27 17:35:58.787 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:35:58.788 1 [error] <0.28907.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28907.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 17:35:58.788 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28907.0>,timeout}
2022-06-27 17:36:06.361 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:36:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:36:06.362 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:36:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:36:06.363 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4337,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:36:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:36:08.789 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:36:08.912 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```



```
2022-06-27 17:36:08.933 1 [info] <0.28928.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:36:08.934 1 [info] <0.28928.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.28925.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:36:09.075 1 [error]
<0.28925.0>@http2_client:handle_settings:822 gen_server <0.28925.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:36:09.076 1 [error]
<0.28925.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.28925.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:36:09.076 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28928.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:36:09.076 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 17:36:09.076 1 [error] <0.28928.0>@Undefined:Undefined:Undefined
gen_server <0.28928.0> terminated with reason: connection_down
2022-06-27 17:36:09.076 1 [error] <0.28928.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28928.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:36:09.077 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:36:09.077 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:36:09.079 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28925.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4387>,socket_mon =>
#Ref<0.155928093.3973316610.237498>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28928.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}}
2022-06-27 17:36:09.079 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28928.0>,connection_down}
```

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2022-06-27 17:36:19.056 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:36:19.079 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:36:19.243 1 [info] <0.28954.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:36:19.246 1 [info] <0.28954.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.28953.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:36:19.393 1 [error]
<0.28953.0>@http2_client:handle_settings:822 gen_server <0.28953.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:36:19.395 1 [error]
<0.28953.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.28953.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:36:19.395 1 [error] <0.28954.0>@Undefined:Undefined:Undefined
gen_server <0.28954.0> terminated with reason: connection_down
2022-06-27 17:36:19.396 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28954.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

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{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:36:19.396 1 [error] <0.28954.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28954.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:36:19.396 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:36:19.396 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:36:19.396 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:36:19.397 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28953.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4389>,socket_mon =>
#Ref<0.155928093.3973316610.237562>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28954.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 17:36:19.399 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28954.0>,connection_down}
2022-06-27 17:36:29.202 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:36:29.399 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:36:29.665 1 [info] <0.28957.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:36:29.667 1 [info] <0.28957.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.28956.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:36:29.924 1 [error]
<0.28956.0>@http2_client:handle_settings:822 gen_server <0.28956.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:36:29.924 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28957.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

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{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:36:29.925 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:36:29.925 1 [error]
<0.28956.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.28956.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:36:29.926 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:36:29.926 1 [error] <0.28957.0>@Undefined:Undefined:Undefined
gen_server <0.28957.0> terminated with reason: connection_down
2022-06-27 17:36:29.926 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:36:29.926 1 [error] <0.28957.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28957.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:36:29.928 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28956.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4390>,socket_mon =>
```

```
#Ref<0.155928093.3973316610.237603>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28957.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 17:36:29.928 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28957.0>,connection_down}
2022-06-27 17:36:36.358 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:36:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:36:36.359 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:36:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:36:36.360 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4341,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:36:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:36:39.352 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:36:39.928 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:36:40.152 1 [info] <0.28965.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:36:40.154 1 [info] <0.28965.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.28964.0>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:36:40.365 1 [error]
<0.28964.0>@http2_client:handle_settings:822 gen_server <0.28964.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:36:40.366 1 [error]
<0.28964.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.28964.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:36:40.366 1 [error]
<0.28965.0>@Undefined:Undefined:Undefined gen_server <0.28965.0>
terminated with reason: connection_down
2022-06-27 17:36:40.367 1 [error] <0.28965.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28965.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:36:40.367 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28965.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:36:40.368 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```



```
<<"stream create failed">>}}
2022-06-27 17:36:40.369 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:36:40.369 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:36:40.371 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28964.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4391>,socket_mon =>
#Ref<0.155928093.3973316610.237789>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28965.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 17:36:40.371 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28965.0>,connection_down}
2022-06-27 17:36:49.490 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:36:50.371 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

unary request via new connection to ip "52.210.14.128":

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 17:36:50.450 1 [info] <0.28968.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 17:36:50.453 1 [info] <0.28968.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"52.210.14.128">>,http_connection => <0.28967.0>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 17:36:50.520 1 [error]
```

```
<0.28967.0>@http2_client:handle_settings:822 gen_server <0.28967.0>
```

```
terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 17:36:50.521 1 [error]
```

```
<0.28967.0>@http2_client:handle_settings:822 CRASH REPORT Process
```

```
<0.28967.0> with 0 neighbours crashed with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 17:36:50.522 1 [error] <0.28968.0>@Undefined:Undefined:Undefined
```

```
gen_server <0.28968.0> terminated with reason: connection_down
```

```
2022-06-27 17:36:50.523 1 [error] <0.28968.0>@Undefined:Undefined:Undefined
```

```
CRASH REPORT Process <0.28968.0> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 17:36:50.525 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.28968.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:36:50.526 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:36:50.527 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:36:50.527 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:36:50.531 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28967.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{55,
{<<":authority">>,<<"52.210.14.128">>}],{63,<<":path">>,<<"/helium.gateway/
validators">>}}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4392>,socket_mon =>
#Ref<0.155928093.3973316610.237944>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28968.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 17:36:50.532 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28968.0>,connection_down}
2022-06-27 17:36:59.630 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:37:00.530 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:37:00.797 1 [info] <0.28972.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:37:00.799 1 [info] <0.28972.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.28971.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:37:01.053 1 [error] <0.28971.0>@http2_client:handle_settings:822
gen_server <0.28971.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:37:01.055 1 [error] <0.28971.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.28971.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:37:01.055 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28972.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:37:01.056 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:37:01.056 1 [error] <0.28972.0>@Undefined:Undefined:Undefined
gen_server <0.28972.0> terminated with reason: connection_down
2022-06-27 17:37:01.056 1 [error] <0.28972.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28972.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:37:01.056 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:37:01.056 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:37:01.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28971.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4393>,socket_mon =>
#Ref<0.155928093.3973316610.238105>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28972.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 17:37:01.058 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28972.0>,connection_down}
2022-06-27 17:37:06.363 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:37:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:37:06.363 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:37:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:37:06.364 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4345,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:37:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 17:37:09.772 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:37:11.059 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:37:11.270 1 [info] <0.28985.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:37:11.271 1 [info] <0.28985.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.28984.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:37:11.480 1 [error]
<0.28984.0>@http2_client:handle_settings:822 gen_server <0.28984.0>
```

```
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:37:11.482 1 [error] <0.28984.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.28984.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:37:11.482 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.28985.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:37:11.482 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:37:11.483 1 [error] <0.28985.0>@Undefined:Undefined:Undefined
gen_server <0.28985.0> terminated with reason: connection_down
2022-06-27 17:37:11.483 1 [error] <0.28985.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.28985.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:37:11.483 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:37:11.483 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:37:11.484 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28984.0>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4394>,socket_mon =>
#Ref<0.155928093.3973316610.238343>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.28985.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 17:37:11.485 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28985.0>,connection_down}
2022-06-27 17:37:19.917 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:37:21.485 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:37:21.649 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1642.0>
2022-06-27 17:37:21.704 1 [info] <0.29001.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:37:21.705 1 [info] <0.29001.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```



```
<<"52.89.130.114">>,http_connection => <0.28998.0>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:37:21.918 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29001.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:37:21.919 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:37:21.919 1 [error] <0.28998.0>@http2_client:handle_settings:822
gen_server <0.28998.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:37:21.920 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:37:21.920 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:37:21.920 1 [error]
<0.28998.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.28998.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 17:37:21.920 1 [error] <0.29001.0>@Undefined:Undefined:Undefined
gen_server <0.29001.0> terminated with reason: connection_down
2022-06-27 17:37:21.921 1 [error] <0.29001.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29001.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:37:21.922 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.28998.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4395>,socket_mon =>
#Ref<0.155928093.3973316610.238500>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29001.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 17:37:21.923 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29001.0>,connection_down}
2022-06-27 17:37:30.062 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:37:31.923 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
```

```
{gateway_validators_req_v1_pb,1}
2022-06-27 17:37:31.988 1 [info] <0.29008.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:37:31.989 1 [info] <0.29008.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.29007.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:37:32.052 1 [error]
<0.29007.0>@http2_client:handle_settings:822 gen_server <0.29007.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:37:32.054 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29008.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:37:32.054 1 [error]
<0.29007.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29007.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:37:32.055 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

```
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:37:32.055 1 [error] <0.29008.0>@Undefined:Undefined:Undefined
gen_server <0.29008.0> terminated with reason: connection_down
2022-06-27 17:37:32.056 1 [error] <0.29008.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29008.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:37:32.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:37:32.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:37:32.060 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29007.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4396>,socket_mon =>
#Ref<0.155928093.3973316610.238690>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29008.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:37:32.061 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

in setup state: Type: info, Msg: {'EXIT',<0.29008.0>,connection\_down}  
2022-06-27 17:37:36.364 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:37:36 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 17:37:36.364 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:37:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 17:37:36.366 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4349,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:37:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 17:37:40.206 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 17:37:42.060 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.49.199.40":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 17:37:50.356 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 17:37:57.878 1 [info] <0.1636.0>@libp2p\_peerbook:notify\_peers:  
{726,5} gossiping out 2 notify peers  
2022-06-27 17:38:00.492 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 17:38:06.370 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:38:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 17:38:06.371 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:38:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 17:38:06.373 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4353,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:38:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:38:10.629 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:38:12.063 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}]
2022-06-27 17:38:12.063 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:38:12.064 1 [error] <0.29028.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29028.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 17:38:12.064 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29028.0>,timeout}
2022-06-27 17:38:20.766 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:38:22.065 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:38:22.329 1 [info] <0.29033.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:38:22.330 1 [info] <0.29033.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.29032.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:38:22.588 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29033.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:38:22.588 1 [error]
<0.29032.0>@http2_client:handle_settings:822 gen_server <0.29032.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:38:22.588 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:38:22.589 1 [error]
<0.29032.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29032.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:38:22.589 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:38:22.589 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:38:22.590 1 [error] <0.29033.0>@Undefined:Undefined:Undefined
gen_server <0.29033.0> terminated with reason: connection_down
```

2022-06-27 17:38:22.590 1 [error] <0.29033.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.29033.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 17:38:22.592 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.29032.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "3.39.165.144",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4403>,socket\_mon =>  
#Ref<0.155928093.3973316610.239739>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.29033.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 17:38:22.592 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.29033.0>,connection\_down}

2022-06-27 17:38:30.910 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

2022-06-27 17:38:32.592 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.215.29.4":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 17:38:32.812 1 [info] <0.29036.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary



```
2022-06-27 17:38:32.813 1 [info] <0.29036.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.29035.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:38:33.028 1 [error]
<0.29035.0>@http2_client:handle_settings:822 gen_server <0.29035.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:38:33.029 1 [error]
<0.29035.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29035.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:38:33.030 1 [error] <0.29036.0>@Undefined:Undefined:Undefined
gen_server <0.29036.0> terminated with reason: connection_down
2022-06-27 17:38:33.030 1 [error] <0.29036.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29036.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:38:33.030 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29036.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 17:38:33.030 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:38:33.031 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:38:33.031 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:38:33.032 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29035.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4404>,socket_mon =>
#Ref<0.155928093.3973316610.239838>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29036.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:38:33.033 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29036.0>,connection_down}
2022-06-27 17:38:36.369 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
```

```
#{"stat": 0, "ackr": 0.0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0.0, "time": "2022-06-27 17:38:36 GMT", "txnb": 0} from
12291671073248440251 on 35152
2022-06-27 17:38:36.371 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{"ackr": 0.0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0.0, "time": "2022-06-27 17:38:36 GMT", "txnb": 0}
2022-06-27 17:38:36.373 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4357,dropped=0,status=#{"ackr": 0.0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0.0, "time": "2022-06-27 17:38:36 GMT", "txnb": 0},rtt_samples=[],rtt=5000000}
2022-06-27 17:38:41.062 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:38:43.033 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:38:43.186 1 [info] <0.29039.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:38:43.188 1 [info] <0.29039.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.29038.0>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:38:43.330 1 [error]
<0.29038.0>@http2_client:handle_settings:822 gen_server <0.29038.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:38:43.331 1 [error]
<0.29038.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29038.0> with 0 neighbours crashed with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:38:43.331 1 [error] <0.29039.0>@Undefined:Undefined:Undefined
gen_server <0.29039.0> terminated with reason: connection_down
2022-06-27 17:38:43.331 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29039.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:38:43.331 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:38:43.331 1 [error] <0.29039.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29039.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:38:43.332 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:38:43.332 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:38:43.334 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29038.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"3.132.190.192">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}}], host => "3.132.190.192", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.4405>, socket_mon =>
#Ref<0.155928093.3973316610.239903>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.29039.0>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file,"http2_client.erl"}, {line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"}, {line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"}, {line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"}, {line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"}, {line,226}]}}]}
2022-06-27 17:38:43.334 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29039.0>,connection_down}
2022-06-27 17:38:51.216 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:38:53.335 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:38:53.488 1 [info] <0.29042.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:38:53.492 1 [info] <0.29042.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.29041.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:38:53.632 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29042.0>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
```

```
[[file,"gen_server.erl"],{line,247}]],
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]},{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]},
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]},
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 17:38:53.633 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:38:53.633 1 [error]
<0.29041.0>@http2_client:handle_settings:822 gen_server <0.29041.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:38:53.633 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:38:53.634 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:38:53.634 1 [error]
<0.29041.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29041.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:38:53.634 1 [error]
<0.29042.0>@Undefined:Undefined:Undefined gen_server <0.29042.0>
terminated with reason: connection_down
2022-06-27 17:38:53.635 1 [error] <0.29042.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29042.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:38:53.636 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.29041.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4406>,socket_mon =>
#Ref<0.155928093.3973316610.239961>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29042.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 17:38:53.637 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29042.0>,connection_down}
2022-06-27 17:38:57.519 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11yJRnYb9fA5cjTW7U6LYJpgKZzmRX8JYzMWDHbwYd21sjB7u72" informed us of
our observed address "/ip4/80.77.186.186/tcp/64788"
2022-06-27 17:39:01.376 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:39:03.636 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:39:03.857 1 [info] <0.29086.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:39:03.858 1 [info] <0.29086.0>@grpc_client_stream_custom:init:
```

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.29081.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:39:04.080 1 [error]
<0.29081.0>@http2_client:handle_settings:822 gen_server <0.29081.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:39:04.080 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29086.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:39:04.081 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:39:04.081 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:39:04.081 1 [error]
<0.29081.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29081.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```



```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 17:39:04.081 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:39:04.082 1 [error]
<0.29086.0>@Undefined:Undefined:Undefined gen_server <0.29086.0>
terminated with reason: connection_down
2022-06-27 17:39:04.082 1 [error]
<0.29086.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.29086.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 17:39:04.083 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29081.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4412>,socket_mon =>
#Ref<0.155928093.3973840897.226047>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29086.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:39:04.084 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29086.0>,connection_down}
2022-06-27 17:39:06.376 1 [info]
```

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:39:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 17:39:06.377 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:39:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 17:39:06.380 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4361,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:39:06 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 17:39:06.795 1 [info] <0.29088.0>@libp2p\_transport\_proxy:connect:  
{38,5} init proxy with ["/p2p/  
1124qE2Y5jVjZEnArXY8tt7gB7vp4UMygqKJsGVHy6aQz779pvT","/p2p/  
1124jhdXSHpvy4FEc6YFNSeBoAhAX5nwqAapW4gBjhtLeTdzf1tc"]  
2022-06-27 17:39:06.802 1 [error]  
<0.29088.0>@libp2p\_transport\_proxy:connect\_to:{69,13} failed to dial proxy  
server "/p2p/1124qE2Y5jVjZEnArXY8tt7gB7vp4UMygqKJsGVHy6aQz779pvT"  
not\_found  
2022-06-27 17:39:06.803 1 [warning]  
<0.1641.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/  
1124jhdXSHpvy4FEc6YFNSeBoAhAX5nwqAapW4gBjhtLeTdzf1tc": [{"/p2p/  
1124qE2Y5jVjZEnArXY8tt7gB7vp4UMygqKJsGVHy6aQz779pvT/p2p-circuit/p2p/  
1124jhdXSHpvy4FEc6YFNSeBoAhAX5nwqAapW4gBjhtLeTdzf1tc",fail\_dial\_proxy}]  
2022-06-27 17:39:11.524 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 17:39:14.084 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.210.14.128":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 17:39:14.161 1 [info] <0.29090.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 17:39:14.162 1 [info] <0.29090.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"52.210.14.128">>,http\_connection => <0.29089.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}},name =>

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:39:14.234 1 [error]
<0.29089.0>@http2_client:handle_settings:822 gen_server <0.29089.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:39:14.236 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29090.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:39:14.237 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:39:14.238 1 [error]
<0.29089.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29089.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:39:14.239 1 [error] <0.29090.0>@Undefined:Undefined:Undefined
gen_server <0.29090.0> terminated with reason: connection_down
2022-06-27 17:39:14.239 1 [error] <0.29090.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29090.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:39:14.240 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 17:39:14.241 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 17:39:14.243 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29089.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}]}},host => "52.210.14.128",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4417>,socket\_mon => #Ref<0.155928093.3973316610.240615>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.29090.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]

2022-06-27 17:39:14.243 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29090.0>,connection\_down}

2022-06-27 17:39:21.676 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 17:39:24.244 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.89.130.114":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 17:39:24.459 1 [info] <0.29094.0>@grpc\_client\_stream\_custom:init:

```
{131,9} init stream for RPC validators and type unary
2022-06-27 17:39:24.460 1 [info] <0.29094.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.29093.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:39:24.672 1 [error]
<0.29093.0>@http2_client:handle_settings:822 gen_server <0.29093.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:39:24.674 1 [error]
<0.29093.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29093.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:39:24.674 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29094.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:39:24.674 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 17:39:24.674 1 [error] <0.29094.0>@Undefined:Undefined:Undefined  
gen\_server <0.29094.0> terminated with reason: connection\_down  
2022-06-27 17:39:24.675 1 [error] <0.29094.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.29094.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 17:39:24.675 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 17:39:24.676 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 17:39:24.678 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.29093.0>,{function\_clause,  
[http2\_client,handle\_settings,  
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"52.89.130.114">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}]}},host => "52.89.130.114",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4418>,socket\_mon =>  
#Ref<0.155928093.3973316610.240684>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.29094.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 17:39:24.678 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.29094.0>,connection\_down}  
2022-06-27 17:39:31.812 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:39:34.678 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:39:34.991 1 [info] <0.29097.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:39:34.992 1 [info] <0.29097.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.29096.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:39:35.303 1 [error]
<0.29096.0>@http2_client:handle_settings:822 gen_server <0.29096.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:39:35.305 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29097.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:39:35.305 1 [error]
<0.29096.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29096.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:39:35.305 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:39:35.305 1 [error] <0.29097.0>@Undefined:Undefined:Undefined
gen_server <0.29097.0> terminated with reason: connection_down
2022-06-27 17:39:35.306 1 [error] <0.29097.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29097.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:39:35.306 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:39:35.306 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:39:35.308 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29096.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{55,
{<<":authority">>,<<"13.211.55.217">>}}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4419>,socket_mon =>
#Ref<0.155928093.3973316610.240771>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29097.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```



```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 17:39:35.308 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29097.0>,connection_down}
2022-06-27 17:39:36.375 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:39:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:39:36.376 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:39:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:39:36.377 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4365,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:39:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:39:41.972 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:39:45.309 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:39:45.652 1 [info] <0.29100.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:39:45.654 1 [info] <0.29100.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.29099.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:39:45.966 1 [error]
<0.29099.0>@http2_client:handle_settings:822 gen_server <0.29099.0>
```

```
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:39:45.967 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29100.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:39:45.968 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:39:45.968 1 [error]
<0.29099.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29099.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:39:45.969 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:39:45.969 1 [error] <0.29100.0>@Undefined:Undefined:Undefined
gen_server <0.29100.0> terminated with reason: connection_down
2022-06-27 17:39:45.970 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:39:45.970 1 [error] <0.29100.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29100.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:39:45.973 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.29099.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4420>,socket_mon =>
#Ref<0.155928093.3973316610.240844>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29100.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:39:45.974 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29100.0>,connection_down}
2022-06-27 17:39:52.126 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:39:55.972 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:39:56.197 1 [info] <0.29103.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:39:56.199 1 [info] <0.29103.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.29102.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:39:56.413 1 [error]
<0.29102.0>@http2_client:handle_settings:822 gen_server <0.29102.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:39:56.415 1 [error]
<0.29102.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29102.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:39:56.416 1 [error] <0.29103.0>@Undefined:Undefined:Undefined
gen_server <0.29103.0> terminated with reason: connection_down
2022-06-27 17:39:56.417 1 [error] <0.29103.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29103.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:39:56.417 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29103.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:39:56.418 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:39:56.419 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 17:39:56.419 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 17:39:56.421 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29102.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{53, {<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "13.215.29.4",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4421>,socket\_mon => #Ref<0.155928093.3973840897.227039>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.29103.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 17:39:56.421 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29103.0>,connection\_down}  
2022-06-27 17:40:02.272 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 17:40:06.374 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>

```
<<"2022-06-27 17:40:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:40:06.375 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:40:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:40:06.377 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4369,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:40:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:40:06.422 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:40:06.684 1 [info] <0.29106.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:40:06.687 1 [info] <0.29106.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.29105.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:40:06.940 1 [error]
<0.29105.0>@http2_client:handle_settings:822 gen_server <0.29105.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:40:06.942 1 [error]
<0.29105.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29105.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:40:06.943 1 [error] <0.29106.0>@Undefined:Undefined:Undefined
```

```
gen_server <0.29106.0> terminated with reason: connection_down
2022-06-27 17:40:06.943 1 [error] <0.29106.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29106.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:40:06.944 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29106.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:40:06.945 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:40:06.946 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:40:06.946 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:40:06.948 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29105.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4422>,socket_mon =>
#Ref<0.155928093.3973316610.241018>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29106.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 17:40:06.949 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29106.0>,connection_down}
2022-06-27 17:40:12.412 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:40:16.949 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:40:17.262 1 [info] <0.29139.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:40:17.263 1 [info] <0.29139.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.29138.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:40:17.575 1 [error] <0.29138.0>@http2_client:handle_settings:822
gen_server <0.29138.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:40:17.576 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```



```
{gen_server,call,[<0.29139.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:40:17.577 1 [error] <0.29138.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29138.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:40:17.577 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:40:17.577 1 [error] <0.29139.0>@Undefined:Undefined:Undefined
gen_server <0.29139.0> terminated with reason: connection_down
2022-06-27 17:40:17.578 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:40:17.578 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:40:17.578 1 [error] <0.29139.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29139.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:40:17.581 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29138.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>, <<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>, <<"application/grpc+proto">>}}, {55,
{<<":authority">>, <<"13.211.55.217">>}}, {63, {<<":path">>, <<"/helium.gateway/
validators">>}}}], host => "13.211.55.217", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.4423>, socket_mon =>
#Ref<0.155928093.3973316610.241218>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.29139.0>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file, "http2_client.erl"}, {line, 822}],
{http2_client, handle_packet, 2, [{file, "http2_client.erl"}, {line, 648}],
{gen_server, try_dispatch, 4, [{file, "gen_server.erl"}, {line, 695}],
{gen_server, handle_msg, 6, [{file, "gen_server.erl"}, {line, 771}],
{proc_lib, init_p_do_apply, 3, [{file, "proc_lib.erl"}, {line, 226}]}}]}
2022-06-27 17:40:17.582 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT', <0.29139.0>, connection_down}
2022-06-27 17:40:22.556 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:40:27.581 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb, 1}
2022-06-27 17:40:27.650 1 [info] <0.29142.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:40:27.652 1 [info] <0.29142.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>, compression =>
none, connection => #{client => http2_client, host =>
<<"3.72.215.7">>, http_connection => <0.29141.0>, scheme =>
<<"http">>}, encoder => gateway_miner_client_pb, headers_sent => false, input =>
gateway_validators_req_v1_pb, input_stream => false, metadata => #{}}, name =>
validators, opts => [], output => gateway_resp_v1_pb, output_stream =>
false, package => [], queue => {[], []}, response_pending => false, rpc =>
validators, service => 'helium.gateway', state => idle, stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:40:27.711 1 [error] <0.29141.0>@http2_client:handle_settings:822
gen_server <0.29141.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:40:27.712 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29142.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:40:27.712 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:40:27.712 1 [error] <0.29141.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29141.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:40:27.713 1 [error] <0.29142.0>@Undefined:Undefined:Undefined
gen_server <0.29142.0> terminated with reason: connection_down
2022-06-27 17:40:27.713 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:40:27.714 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:40:27.714 1 [error] <0.29142.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29142.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:40:27.715 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29141.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4424>,socket_mon =>
#Ref<0.155928093.3973316610.241395>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29142.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 17:40:27.715 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29142.0>,connection_down}
2022-06-27 17:40:32.695 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:40:36.374 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:40:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:40:36.374 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:40:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:40:36.376 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4373,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
```

```
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:40:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:40:37.716 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:40:37.792 1 [info] <0.29145.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:40:37.793 1 [info] <0.29145.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.29144.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:40:37.860 1 [error]
<0.29144.0>@http2_client:handle_settings:822 gen_server <0.29144.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:40:37.861 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29145.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:40:37.861 1 [error] <0.29144.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29144.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:40:37.861 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:40:37.861 1 [error] <0.29145.0>@Undefined:Undefined:Undefined
gen_server <0.29145.0> terminated with reason: connection_down
2022-06-27 17:40:37.862 1 [error] <0.29145.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29145.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:40:37.862 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:40:37.862 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:40:37.863 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29144.0>,{function_clause,
[http2_client,handle_settings,
[[[],<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4425>,socket_mon =>
#Ref<0.155928093.3973316610.241586>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29145.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 17:40:37.864 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29145.0>,connection_down}
2022-06-27 17:40:42.849 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:40:47.865 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:40:48.125 1 [info] <0.29148.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:40:48.127 1 [info] <0.29148.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.29147.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:40:48.382 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29148.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:40:48.383 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 17:40:48.384 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 17:40:48.384 1 [error]  
<0.29147.0>@http2\_client:handle\_settings:822 gen\_server <0.29147.0> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 17:40:48.385 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 17:40:48.386 1 [error]  
<0.29147.0>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.29147.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 17:40:48.387 1 [error] <0.29148.0>@Undefined:Undefined:Undefined gen\_server <0.29148.0> terminated with reason: connection\_down

2022-06-27 17:40:48.388 1 [error] <0.29148.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.29148.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 17:40:48.389 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29147.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{56, {<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "54.207.131.103",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4426>,socket\_mon => #Ref<0.155928093.3973316610.241786>,state => open,stream\_count =>



```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29148.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 17:40:48.390 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29148.0>,connection_down}
2022-06-27 17:40:51.417 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 3,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAE/
jifdAF0PAIJ816PRZHZOUClpboCJOIHDj0xVePpT4eQ6VlmeGLpQliQz6IETAg==">>,
<<"datr">> => <<"SF12BW125">>,<<"foff">> => -198,<<"freq">> =>
867.1,<<"jver">> => 1,<<"lsnr">> => -21.0,<<"mid">> => 0,<<"modu">> =>
<<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -110,<<"rssi_s">> => -130,<<"size">>
=> 52,<<"stat">> => 1,<<"tmst">> => 3102379480]}} from
12291671073248440251 on 35152
2022-06-27 17:40:52.989 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:40:58.388 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:40:58.545 1 [info] <0.29151.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:40:58.547 1 [info] <0.29151.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.29150.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:40:58.690 1 [error]
<0.29150.0>@http2_client:handle_settings:822 gen_server <0.29150.0>
```

```
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:40:58.692 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29151.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:40:58.692 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:40:58.692 1 [error]
<0.29150.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29150.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:40:58.693 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:40:58.693 1 [error] <0.29151.0>@Undefined:Undefined:Undefined
gen_server <0.29151.0> terminated with reason: connection_down
2022-06-27 17:40:58.693 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:40:58.693 1 [error] <0.29151.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29151.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:40:58.694 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.29150.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4427>,socket_mon =>
#Ref<0.155928093.3973316610.241977>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29151.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 17:40:58.695 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29151.0>,connection_down}
2022-06-27 17:41:03.142 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:41:03.396 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 4,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAHI2YwIAC5uAOU7O98rGbyg//
p2XGAqkYg16MMhAn9ak7h6YI2KipxfzV7jhnDOWg==">>,<<"datr">> =>
<<"SF12BW125">>,<<"foff">> => -203,<<"freq">> => 867.3,<<"jver">> =>
1,<<"lsnr">> => 4.8,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">> =>
0,<<"rssi">> => -96,<<"rssi_s">> => -97,<<"size">> => 52,<<"stat">> =>
1,<<"tmst">> => 3114353948}}] from 12291671073248440251 on 35152
2022-06-27 17:41:06.376 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
```

```
#{"stat": 2, "ackr": 0.0, "dwnb": 0, "rxfw": 2, "rxnb": 2, "rxok": 2, "temp": 0.0, "time": "2022-06-27 17:41:06 GMT", "txnb": 0} from
12291671073248440251 on 35152
2022-06-27 17:41:06.378 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{"ackr": 0.0, "dwnb": 0, "rxfw": 2, "rxnb": 2, "rxok": 2, "temp": 0.0, "time": "2022-06-27 17:41:06 GMT", "txnb": 0}
2022-06-27 17:41:06.381 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4377,dropped=0,status=#{"ackr": 0.0, "dwnb": 0, "rxfw": 2, "rxnb": 2, "rxok": 2, "temp": 0.0, "time": "2022-06-27 17:41:06 GMT", "txnb": 0},rtt_samples=[],rtt=5000000}
2022-06-27 17:41:08.696 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:41:08.965 1 [info] <0.29154.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:41:08.966 1 [info] <0.29154.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.29153.0>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:41:09.229 1 [error] <0.29153.0>@http2_client:handle_settings:822
gen_server <0.29153.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:41:09.230 1 [error] <0.29153.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29153.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:41:09.231 1 [error] <0.29154.0>@Undefined:Undefined:Undefined
gen_server <0.29154.0> terminated with reason: connection_down
```

```
2022-06-27 17:41:09.231 1 [error] <0.29154.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29154.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:41:09.232 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29154.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:41:09.232 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:41:09.233 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:41:09.233 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:41:09.235 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29153.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"18.228.115.118">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4428>,socket_mon =>
#Ref<0.155928093.3973316610.242183>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29154.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 17:41:09.235 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29154.0>,connection_down}
2022-06-27 17:41:13.296 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:41:19.235 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:41:19.459 1 [info] <0.29195.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:41:19.460 1 [info] <0.29195.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.29193.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:41:19.675 1 [error] <0.29193.0>@http2_client:handle_settings:822
gen_server <0.29193.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:41:19.676 1 [error] <0.29193.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29193.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:41:19.677 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29195.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:41:19.677 1 [error] <0.29195.0>@Undefined:Undefined:Undefined
gen_server <0.29195.0> terminated with reason: connection_down
2022-06-27 17:41:19.677 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:41:19.677 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:41:19.677 1 [error] <0.29195.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29195.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811 2022-06-27
17:41:19.677 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:41:19.678 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29193.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4430>,socket_mon =>
#Ref<0.155928093.3973316610.242499>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29195.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}
2022-06-27 17:41:19.679 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29195.0>,connection_down}
2022-06-27 17:41:23.429 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:41:29.680 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:41:29.838 1 [info] <0.29204.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:41:29.839 1 [info] <0.29204.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.29203.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:41:29.986 1 [error]
<0.29203.0>@http2_client:handle_settings:822 gen_server <0.29203.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```



```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:41:29.989 1 [error]
<0.29203.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29203.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:41:29.989 1 [error] <0.29204.0>@Undefined:Undefined:Undefined
gen_server <0.29204.0> terminated with reason: connection_down
2022-06-27 17:41:29.990 1 [error] <0.29204.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29204.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:41:29.992 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29204.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:41:29.992 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:41:29.993 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:41:29.993 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:41:29.996 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29203.0>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4431>,socket_mon =>
#Ref<0.155928093.3973316610.242696>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29204.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:41:29.996 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29204.0>,connection_down}
2022-06-27 17:41:33.562 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:41:36.375 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:41:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:41:36.375 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:41:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:41:36.377 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=4381,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:41:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 17:41:39.996 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:41:40.225 1 [info] <0.29207.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:41:40.226 1 [info] <0.29207.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.29206.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:41:40.444 1 [error]
<0.29206.0>@http2_client:handle_settings:822 gen_server <0.29206.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:41:40.445 1 [error]
<0.29206.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29206.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:41:40.446 1 [error] <0.29207.0>@Undefined:Undefined:Undefined
gen_server <0.29207.0> terminated with reason: connection_down
2022-06-27 17:41:40.446 1 [error] <0.29207.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29207.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:41:40.447 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29207.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 17:41:40.447 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:41:40.448 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:41:40.448 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:41:40.449 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29206.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{55,
{<<":authority">>,<<"13.215.75.202">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4432>,socket_mon =>
#Ref<0.155928093.3973316610.242899>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29207.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[file,"http2_client.erl"],{line,822}]],
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 17:41:40.450 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29207.0>,connection_down}
2022-06-27 17:41:43.709 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:41:50.451 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:41:50.772 1 [info] <0.29210.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:41:50.775 1 [info] <0.29210.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.29209.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:41:51.087 1 [error] <0.29209.0>@http2_client:handle_settings:822
gen_server <0.29209.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:41:51.088 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29210.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:41:51.088 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:41:51.088 1 [error]
<0.29209.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29209.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:41:51.089 1 [error] <0.29210.0>@Undefined:Undefined:Undefined
gen_server <0.29210.0> terminated with reason: connection_down
2022-06-27 17:41:51.089 1 [error] <0.29210.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29210.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:41:51.089 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:41:51.089 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:41:51.091 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29209.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4433>,socket_mon =>
#Ref<0.155928093.3973316610.243124>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29210.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 17:41:51.091 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29210.0>,connection_down}
2022-06-27 17:41:53.867 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:42:01.092 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:42:01.171 1 [info] <0.29213.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:42:01.173 1 [info] <0.29213.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.29212.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:42:01.244 1 [error] <0.29212.0>@http2_client:handle_settings:822
gen_server <0.29212.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:42:01.245 1 [error] <0.29212.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29212.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 17:42:01.246 1 [error] <0.29213.0>@Undefined:Undefined:Undefined
gen_server <0.29213.0> terminated with reason: connection_down
2022-06-27 17:42:01.247 1 [error] <0.29213.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29213.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:42:01.248 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29213.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:42:01.248 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:42:01.248 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:42:01.249 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:42:01.251 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29212.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],}],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.111.82",last_stream => 1,owner =>
```



```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4434>,socket_mon =>
#Ref<0.155928093.3973316610.243324>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29213.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:42:01.251 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29213.0>,connection_down}
2022-06-27 17:42:04.002 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:42:06.375 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:42:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:42:06.376 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:42:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:42:06.377 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4385,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:42:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:42:11.252 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:42:11.530 1 [info] <0.29216.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 17:42:11.530 1 [info] <0.29216.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.29215.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:42:11.797 1 [error] <0.29215.0>@http2_client:handle_settings:822
gen_server <0.29215.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:42:11.798 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29216.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:42:11.798 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:42:11.798 1 [error] <0.29215.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29215.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:42:11.798 1 [error] <0.29216.0>@Undefined:Undefined:Undefined
gen_server <0.29216.0> terminated with reason: connection_down
2022-06-27 17:42:11.799 1 [error] <0.29216.0>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.29216.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 17:42:11.799 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 17:42:11.799 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 17:42:11.800 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.29215.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,  
{<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "13.125.32.225",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4435>,socket\_mon =>  
#Ref<0.155928093.3973840897.228421>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.29216.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}  
2022-06-27 17:42:11.801 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.29216.0>,connection\_down}  
2022-06-27 17:42:14.156 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 17:42:21.651 1 [info]

```
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1643.0>
2022-06-27 17:42:21.802 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:42:24.312 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:42:34.460 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:42:36.378 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:42:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:42:36.379 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:42:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:42:36.380 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4389,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:42:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:42:44.606 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:42:51.805 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 17:42:51.805 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:42:51.806 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29225.0>,timeout}
2022-06-27 17:42:51.806 1 [error] <0.29225.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29225.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 17:42:54.752 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:43:01.807 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:43:02.042 1 [info] <0.29249.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:43:02.044 1 [info] <0.29249.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.29248.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:43:02.276 1 [error]
<0.29248.0>@http2_client:handle_settings:822 gen_server <0.29248.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:43:02.280 1 [error]
<0.29248.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29248.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:43:02.281 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29249.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[[file,"gen_server.erl"],{line,247}]],
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]},{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]},
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]},
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 17:43:02.281 1 [error] <0.29249.0>@Undefined:Undefined:Undefined
gen_server <0.29249.0> terminated with reason: connection_down
2022-06-27 17:43:02.281 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:43:02.282 1 [error] <0.29249.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29249.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:43:02.283 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:43:02.283 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:43:02.287 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29248.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"52.220.227.216">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},server_window => 65528,socket => #Port<0.4437>,socket_mon =>
#Ref<0.155928093.3973316610.244523>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29249.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 17:43:02.287 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29249.0>,connection_down}
2022-06-27 17:43:04.913 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:43:06.379 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:43:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:43:06.380 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:43:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:43:06.382 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4393,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:43:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:43:12.286 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:43:12.607 1 [info] <0.29252.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:43:12.608 1 [info] <0.29252.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"13.211.55.217">>,http_connection => <0.29251.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:43:12.924 1 [error] <0.29251.0>@http2_client:handle_settings:822
gen_server <0.29251.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:43:12.925 1 [error] <0.29251.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29251.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:43:12.925 1 [error] <0.29252.0>@Undefined:Undefined:Undefined
gen_server <0.29252.0> terminated with reason: connection_down
2022-06-27 17:43:12.926 1 [error] <0.29252.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29252.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:43:12.926 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29252.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:43:12.926 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:43:12.927 1 [warning]
```



<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 17:43:12.927 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 17:43:12.928 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29251.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096, [{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66, {<<"content-type">>,<<"application/grpc+proto">>}}],{55, {<<":authority">>,<<"13.211.55.217">>}}],{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "13.211.55.217",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4438>,socket\_mon => #Ref<0.155928093.3973316610.244727>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.29252.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}}  
2022-06-27 17:43:12.929 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29252.0>,connection\_down}  
2022-06-27 17:43:15.059 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 17:43:22.929 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.70.55.231":  
{gateway\_validators\_req\_v1\_pb,1}

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2022-06-27 17:43:22.996 1 [info] <0.29258.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:43:22.997 1 [info] <0.29258.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.29256.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:43:23.057 1 [error]
<0.29256.0>@http2_client:handle_settings:822 gen_server <0.29256.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:43:23.058 1 [error]
<0.29256.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29256.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:43:23.058 1 [error] <0.29258.0>@Undefined:Undefined:Undefined
gen_server <0.29258.0> terminated with reason: connection_down
2022-06-27 17:43:23.059 1 [error] <0.29258.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29258.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:43:23.059 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29258.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 17:43:23.059 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:43:23.060 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:43:23.060 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:43:23.062 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29256.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{53,
{<<":authority">>,<<"3.70.55.231">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4439>,socket_mon =>
#Ref<0.155928093.3973316610.244943>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29258.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}
2022-06-27 17:43:23.062 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29258.0>,connection_down}
```

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2022-06-27 17:43:25.216 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:43:33.063 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:43:33.210 1 [info] <0.29284.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:43:33.212 1 [info] <0.29284.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.29283.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:43:33.349 1 [error]
<0.29283.0>@http2_client:handle_settings:822 gen_server <0.29283.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:43:33.352 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29284.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:43:33.353 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

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<<"stream create failed">>}}
2022-06-27 17:43:33.354 1 [error]
<0.29283.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29283.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:43:33.355 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:43:33.355 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:43:33.355 1 [error] <0.29284.0>@Undefined:Undefined:Undefined
gen_server <0.29284.0> terminated with reason: connection_down
2022-06-27 17:43:33.356 1 [error] <0.29284.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29284.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:43:33.357 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29283.0>,{function_clause,
[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4440>,socket_mon =>
#Ref<0.155928093.3973316610.245281>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29284.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 17:43:33.358 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29284.0>,connection_down}
2022-06-27 17:43:35.376 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:43:36.386 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:43:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:43:36.387 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:43:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:43:36.389 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4397,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:43:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:43:43.357 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:43:43.615 1 [info] <0.29287.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:43:43.616 1 [info] <0.29287.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.29286.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:43:43.871 1 [error]
```

```
<0.29286.0>@http2_client:handle_settings:822 gen_server <0.29286.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:43:43.874 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29287.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:43:43.874 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:43:43.875 1 [error]
<0.29286.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29286.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:43:43.876 1 [error] <0.29287.0>@Undefined:Undefined:Undefined
gen_server <0.29287.0> terminated with reason: connection_down
2022-06-27 17:43:43.877 1 [error] <0.29287.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29287.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:43:43.877 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:43:43.877 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:43:43.879 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29286.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},]}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4441>,socket_mon =>
#Ref<0.155928093.3973316610.245487>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29287.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 17:43:43.880 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29287.0>,connection_down}
2022-06-27 17:43:45.529 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:43:47.790 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11rAqKh6wtXVzu9oVLPtM9cfFuLii6wU7mfSjws44CS4ctfrUuv" informed us of our
observed address "/ip4/80.77.186.186/tcp/18653"
2022-06-27 17:43:53.879 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:43:54.030 1 [info] <0.29306.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```



2022-06-27 17:43:54.032 1 [info] <0.29306.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.132.190.192">>,http\_connection => <0.29305.0>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{},name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 17:43:54.177 1 [error]

<0.29305.0>@http2\_client:handle\_settings:822 gen\_server <0.29305.0> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 17:43:54.178 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.29306.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}],

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]}],

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},

{miner\_poc\_grpc\_client\_statem,setup,3,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},

{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}

2022-06-27 17:43:54.179 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 17:43:54.179 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 17:43:54.179 1 [error]

<0.29305.0>@http2\_client:handle\_settings:822 CRASH REPORT Process

<0.29305.0> with 0 neighbours crashed with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:43:54.179 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:43:54.180 1 [error] <0.29306.0>@Undefined:Undefined:Undefined
gen_server <0.29306.0> terminated with reason: connection_down
2022-06-27 17:43:54.180 1 [error] <0.29306.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29306.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:43:54.181 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29305.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4447>,socket_mon =>
#Ref<0.155928093.3973316610.245773>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29306.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:43:54.182 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29306.0>,connection_down}
2022-06-27 17:43:55.682 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833

2022-06-27 17:44:04.182 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.104.32.11":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 17:44:04.499 1 [info] <0.29309.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 17:44:04.502 1 [info] <0.29309.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"3.104.32.11">>,http\_connection => <0.29308.0>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[],[]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 17:44:04.811 1 [error]

<0.29308.0>@http2\_client:handle\_settings:822 gen\_server <0.29308.0>

terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 17:44:04.813 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.29309.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},

{miner\_poc\_grpc\_client\_statem,setup,3,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},

{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}

2022-06-27 17:44:04.813 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message =>

<<"stream create failed">>}}

2022-06-27 17:44:04.814 1 [error]

<0.29308.0>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.29308.0> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 17:44:04.815 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 17:44:04.815 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 17:44:04.816 1 [error] <0.29309.0>@Undefined:Undefined:Undefined gen\_server <0.29309.0> terminated with reason: connection\_down  
2022-06-27 17:44:04.817 1 [error] <0.29309.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.29309.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 17:44:04.818 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29308.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[],},encode\_state => {state,283,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{53, {<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.104.32.11",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4448>,socket\_mon => #Ref<0.155928093.3973316610.245990>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.29309.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 17:44:04.819 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29309.0>,connection_down}
2022-06-27 17:44:05.822 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:44:06.384 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:44:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:44:06.385 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:44:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:44:06.386 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4401,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:44:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:44:09.690 1 [info] <0.1662.0>@blockchain_worker:start_sync:
{888,13} new block sync starting with Pid: <0.29311.0>, Ref:
#Ref<0.155928093.3973316610.246097>, Peer: "/p2p/
11t5fSr7B2mitX8VBYe9v2kUzt5VLfb46QD5Xbc2w4xgHB3igqE"
2022-06-27 17:44:10.556 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11t5fSr7B2mitX8VBYe9v2kUzt5VLfb46QD5Xbc2w4xgHB3igqE" informed us of
our observed address "/ip4/80.77.186.186/tcp/32870"
2022-06-27 17:44:14.818 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:44:15.046 1 [info] <0.29328.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:44:15.049 1 [info] <0.29328.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.29327.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:44:15.271 1 [error] <0.29327.0>@http2_client:handle_settings:822
gen_server <0.29327.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:44:15.271 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29328.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:44:15.272 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:44:15.274 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:44:15.274 1 [error] <0.29327.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29327.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:44:15.274 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:44:15.276 1 [error] <0.29328.0>@Undefined:Undefined:Undefined
gen_server <0.29328.0> terminated with reason: connection_down
```

2022-06-27 17:44:15.277 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29327.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4454>,socket_mon =>
#Ref<0.155928093.3973316610.246399>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29328.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 17:44:15.277 1 [error] <0.29328.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.29328.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 17:44:15.278 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29328.0>,connection_down}
```

2022-06-27 17:44:15.966 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 17:44:17.861 1 [info]

```
<0.29322.0>@blockchain_sync_handler:handle_data:{132,5} adding sync blocks
[1409926,1409927,1409928,1409929,1409930]
```

2022-06-27 17:44:20.575 1 [info]

```
<0.29322.0>@blockchain_sync_handler:handle_data:{142,13} Eagerly re-
gossiping 1409930
```

2022-06-27 17:44:22.158 1 [info] <0.29330.0>@blockchain\_txn:validate:{299,5}  
valid: [], invalid: []

2022-06-27 17:44:22.241 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_payment\_v1

2022-06-27 17:44:22.550 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 293 ms to absorb blockchain\_txn\_assert\_location\_v2

2022-06-27 17:44:22.663 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 378 ms to absorb blockchain\_txn\_assert\_location\_v2

2022-06-27 17:44:22.926 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 376 ms to absorb blockchain\_txn\_assert\_location\_v2

2022-06-27 17:44:22.975 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_validator\_heartbeat\_v1

2022-06-27 17:44:23.076 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:23.094 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 430 ms to absorb blockchain\_txn\_assert\_location\_v2

2022-06-27 17:44:23.122 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:23.159 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:23.219 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:23.281 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:23.337 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:23.396 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:23.445 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:23.498 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:23.547 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:23.551 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 456 ms to absorb blockchain\_txn\_assert\_location\_v2

2022-06-27 17:44:23.592 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:23.633 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:23.733 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:23.761 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2



2022-06-27 17:44:23.787 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:23.869 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 319 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 17:44:23.886 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:23.934 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:23.994 1 [info] <0.29337.0>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:24.145 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 276 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 17:44:24.245 1 [info]  
<0.29337.0>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected  
241 POCs for block height 1409875  
2022-06-27 17:44:24.447 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:24.498 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:24.561 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:24.631 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:24.688 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:24.770 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:24.853 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:24.902 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:24.939 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:24.983 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:25.022 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:25.066 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:25.137 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:25.207 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:25.277 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}

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took 68 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 17:44:25.320 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:44:25.330 1 [info] <0.29330.0>@blockchain_txn:absorb:{578,21}
took 49 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 17:44:25.387 1 [info] <0.29330.0>@blockchain_txn:absorb:{578,21}
took 53 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 17:44:25.388 1 [info] <0.29339.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:44:25.389 1 [info] <0.29339.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.29338.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:44:25.443 1 [info] <0.29330.0>@blockchain_txn:absorb:{578,21}
took 56 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 17:44:25.456 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29339.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:44:25.457 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:44:25.459 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 17:44:25.459 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 17:44:25.463 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29338.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.122.38.248",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4455>,socket\_mon => #Ref<0.155928093.3973316610.247071>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.29339.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}

2022-06-27 17:44:25.464 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29339.0>,connection\_down}

2022-06-27 17:44:25.465 1 [error]

<0.29338.0>@http2\_client:handle\_settings:822 gen\_server <0.29338.0> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 17:44:25.466 1 [error]

<0.29338.0>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.29338.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 17:44:25.467 1 [error] <0.29339.0>@Undefined:Undefined:Undefined  
gen\_server <0.29339.0> terminated with reason: connection\_down  
2022-06-27 17:44:25.467 1 [error] <0.29339.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.29339.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 17:44:25.489 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:25.565 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:25.625 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:25.671 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:25.744 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:25.842 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 98 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:25.910 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:25.957 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.041 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 84 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.104 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 17:44:26.122 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 81 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.165 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.215 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.264 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.311 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.348 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:26.402 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.476 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.548 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.589 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.646 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.710 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.798 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.859 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.929 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:26.997 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:27.052 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:27.112 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:27.168 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:27.226 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:27.281 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:27.353 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:27.427 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:27.495 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:27.547 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:27.578 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:27.647 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:27.723 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:27.774 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:27.839 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:27.944 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 104 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:27.989 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.029 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.073 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.148 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 75 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.246 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 98 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.315 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.343 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.368 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.413 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.454 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.487 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.537 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.586 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.645 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.711 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.765 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.810 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.861 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:28.901 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:28.968 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.030 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.081 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.134 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.187 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.249 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.346 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 97 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.419 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.500 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 81 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.549 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.592 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.636 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.685 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.722 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.761 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.824 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.879 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.915 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:29.968 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:30.041 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:30.092 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:30.130 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:30.207 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:30.301 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:30.354 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:30.433 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:30.514 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:30.570 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:30.614 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:30.696 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:30.784 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 88 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:30.867 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:30.968 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 100 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:31.045 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:31.085 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:31.158 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:31.202 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:31.268 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:31.370 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 103 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:31.441 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:31.537 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 96 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:31.638 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 101 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:31.735 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 97 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:31.811 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2



2022-06-27 17:44:31.858 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:31.911 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:31.960 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:32.026 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:32.074 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:32.127 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:32.184 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:32.259 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:32.319 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:32.365 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:32.439 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:32.525 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 85 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:32.614 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 89 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:32.710 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 95 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:32.804 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 94 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:32.898 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:32.966 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:33.041 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:33.101 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:33.167 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:33.225 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:33.286 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:44:33.350 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:33.408 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:33.481 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:33.529 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:33.575 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:33.641 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:33.733 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 92 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:33.789 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:33.857 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:33.956 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 98 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:34.023 1 [info] <0.29330.0>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:44:34.151 1 [info]  
<0.29330.0>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected  
212 POCs for block height 1409926  
2022-06-27 17:44:34.347 1 [error] emulator@Undefined:Undefined:Undefined  
Error in process <0.29330.0> on node 'miner@127.0.0.1' with exit value:  
{badmatch,{error,{error,"Corruption: block checksum mismatch: stored =  
1975174337, computed = 3807013015 in /var/data/blockchain.db/015769.sst offset  
486887 size 514635"}},[{blockchain,save\_block,2,[{file,"blockchain.erl"},  
{line,2535}]},{blockchain,'-add\_block\_/3-fun-0-',5,[{file,"blockchain.erl"},  
{line,1136}]},{blockchain\_txn,unvalidated\_absorb\_and\_commit,4,  
[{file,"blockchain\_txn.erl"},{line,508}]},{blockchain,add\_block\_,3,  
[{file,"blockchain.erl"},{line,1157}]},{blockchain,'-check\_plausible\_blocks/2-  
fun-1-',4,[{file,"blockchain.erl"},{line,2989}]},{lists,foreach,2,[{file,"lists.erl"},  
{line,1342}]},{blockchain,check\_plausible\_blocks,2,[{file,"blockchain.erl"},  
{line,2983}]}}}  
2022-06-27 17:44:34.361 1 [info] <0.1662.0>@blockchain\_worker:handle\_info:  
{673,53} block sync down: normal  
2022-06-27 17:44:35.469 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.122.38.248":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 17:44:35.549 1 [info] <0.29361.0>@grpc\_client\_stream\_custom:init:

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{131,9} init stream for RPC validators and type unary
2022-06-27 17:44:35.550 1 [info] <0.29361.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.29360.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:44:35.626 1 [error]
<0.29360.0>@http2_client:handle_settings:822 gen_server <0.29360.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:44:35.627 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29361.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:44:35.628 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:44:35.628 1 [error]
<0.29360.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29360.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
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2022-06-27 17:44:35.629 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:44:35.629 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:44:35.629 1 [error] <0.29361.0>@Undefined:Undefined:Undefined
gen_server <0.29361.0> terminated with reason: connection_down
2022-06-27 17:44:35.630 1 [error] <0.29361.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29361.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:44:35.631 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29360.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4457>,socket_mon =>
#Ref<0.155928093.3973316610.248595>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29361.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:44:35.631 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29361.0>,connection_down}
2022-06-27 17:44:36.235 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:44:36.394 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:44:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:44:36.394 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:44:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:44:36.396 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4405,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:44:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:44:45.632 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:44:45.699 1 [info] <0.29383.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:44:45.701 1 [info] <0.29383.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.29382.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:44:45.760 1 [error]
<0.29382.0>@http2_client:handle_settings:822 gen_server <0.29382.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:44:45.762 1 [error]
<0.29382.0>@http2_client:handle_settings:822 CRASH REPORT Process
```

```
<0.29382.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:44:45.762 1 [error] <0.29383.0>@Undefined:Undefined:Undefined
gen_server <0.29383.0> terminated with reason: connection_down
2022-06-27 17:44:45.763 1 [error] <0.29383.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29383.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:44:45.763 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29383.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:44:45.764 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:44:45.764 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:44:45.765 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:44:45.766 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29382.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {52,
{<<":authority">>,<<"3.72.215.7">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4458>,socket_mon =>
#Ref<0.155928093.3973840897.232212>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29383.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 17:44:45.767 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29383.0>,connection_down}
2022-06-27 17:44:46.373 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:44:55.766 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:44:55.841 1 [info] <0.29391.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:44:55.842 1 [info] <0.29391.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.29390.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:44:55.914 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.29391.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:44:55.916 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:44:55.917 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:44:55.917 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:44:55.918 1 [error]
<0.29390.0>@http2_client:handle_settings:822 gen_server <0.29390.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:44:55.919 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29390.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.1.39",last_stream => 1,owner =>
```



```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4459>,socket_mon =>
#Ref<0.155928093.3973316610.249125>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29391.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 17:44:55.919 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29391.0>,connection_down}
2022-06-27 17:44:55.923 1 [error]
<0.29390.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29390.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:44:55.924 1 [error] <0.29391.0>@Undefined:Undefined:Undefined
gen_server <0.29391.0> terminated with reason: connection_down
2022-06-27 17:44:55.925 1 [error] <0.29391.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29391.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811 2022-06-27
17:44:56.519 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 17:45:05.920 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:45:06.246 1 [info] <0.29394.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:45:06.247 1 [info] <0.29394.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.29393.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:45:06.384 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:45:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:45:06.385 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:45:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:45:06.386 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4408,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:45:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:45:06.565 1 [error]
<0.29393.0>@http2_client:handle_settings:822 gen_server <0.29393.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:45:06.567 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29394.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:45:06.568 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}  
2022-06-27 17:45:06.568 1 [error]  
<0.29393.0>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.29393.0> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 17:45:06.569 1 [error]  
<0.29394.0>@Undefined:Undefined:Undefined gen\_server <0.29394.0> terminated with reason: connection\_down  
2022-06-27 17:45:06.569 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 17:45:06.569 1 [error]  
<0.29394.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.29394.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 17:45:06.569 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 17:45:06.573 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29393.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{56, {<<":authority">>,<<"13.237.155.172">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "13.237.155.172",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4460>,socket\_mon => #Ref<0.155928093.3973316610.249311>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.29394.0>,server\_window => 65528,state =>

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 17:45:06.574 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29394.0>,connection_down}
2022-06-27 17:45:06.672 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:45:16.572 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:45:16.816 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:45:16.834 1 [info] <0.29398.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:45:16.835 1 [info] <0.29398.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.29397.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:45:17.092 1 [error] <0.29397.0>@http2_client:handle_settings:822
gen_server <0.29397.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:45:17.093 1 [error] <0.29397.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29397.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 17:45:17.095 1 [error] <0.29398.0>@Undefined:Undefined:Undefined
gen_server <0.29398.0> terminated with reason: connection_down
2022-06-27 17:45:17.096 1 [error] <0.29398.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29398.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:45:17.096 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29398.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:45:17.097 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:45:17.097 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:45:17.097 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:45:17.099 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29397.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4461>,socket_mon =>
#Ref<0.155928093.3973316610.249497>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29398.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:45:17.100 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29398.0>,connection_down}
2022-06-27 17:45:26.973 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:45:27.100 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:45:27.176 1 [info] <0.29402.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:45:27.179 1 [info] <0.29402.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.29401.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:45:27.245 1 [error]
<0.29401.0>@http2_client:handle_settings:822 gen_server <0.29401.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 17:45:27.246 1 [error]
<0.29401.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29401.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 17:45:27.247 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29402.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:45:27.247 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:45:27.247 1 [error] <0.29402.0>@Undefined:Undefined:Undefined
gen_server <0.29402.0> terminated with reason: connection_down
2022-06-27 17:45:27.248 1 [error] <0.29402.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29402.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:45:27.248 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:45:27.248 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:45:27.249 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29401.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

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4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4462>,socket_mon =>
#Ref<0.155928093.3973316610.249664>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29402.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 17:45:27.250 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29402.0>,connection_down}
2022-06-27 17:45:36.386 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:45:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:45:36.386 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:45:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:45:36.387 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4412,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:45:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:45:37.113 1 [info]
```



```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:45:37.251 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:45:37.397 1 [info] <0.29409.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:45:37.399 1 [info] <0.29409.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.29408.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:45:37.539 1 [error]
<0.29408.0>@http2_client:handle_settings:822 gen_server <0.29408.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:45:37.539 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29409.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:45:37.540 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 17:45:37.540 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 17:45:37.541 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 17:45:37.541 1 [error]  
<0.29408.0>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.29408.0> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 17:45:37.541 1 [error] <0.29409.0>@Undefined:Undefined:Undefined gen\_server <0.29409.0> terminated with reason: connection\_down

2022-06-27 17:45:37.542 1 [error] <0.29409.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.29409.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 17:45:37.543 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29408.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096, [{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66, {<<"content-type">>,<<"application/grpc+proto">>}}],{54, {<<":authority">>,<<"3.13.130.184">>}}],{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.13.130.184",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4463>,socket\_mon => #Ref<0.155928093.3973316610.249864>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.29409.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 17:45:37.543 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29409.0>,connection_down}
2022-06-27 17:45:47.262 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:45:47.542 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:45:47.809 1 [info] <0.29433.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:45:47.810 1 [info] <0.29433.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.29432.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:45:48.064 1 [error]
<0.29432.0>@http2_client:handle_settings:822 gen_server <0.29432.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:45:48.066 1 [error]
<0.29432.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29432.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:45:48.066 1 [error]
<0.29433.0>@Undefined:Undefined:Undefined gen_server <0.29433.0>
terminated with reason: connection_down
2022-06-27 17:45:48.067 1 [error] <0.29433.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29433.0> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:45:48.069 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29433.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:45:48.070 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:45:48.070 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:45:48.071 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:45:48.075 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29432.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4464>,socket_mon =>
```

```
#Ref<0.155928093.3973316610.250162>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29433.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 17:45:48.076 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29433.0>,connection_down}
2022-06-27 17:45:57.409 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:45:58.074 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:45:58.293 1 [info] <0.29439.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:45:58.295 1 [info] <0.29439.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.29438.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:45:58.510 1 [error]
<0.29438.0>@http2_client:handle_settings:822 gen_server <0.29438.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:45:58.511 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29439.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}]}
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:45:58.511 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:45:58.512 1 [error]
<0.29438.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29438.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:45:58.512 1 [error] <0.29439.0>@Undefined:Undefined:Undefined
gen_server <0.29439.0> terminated with reason: connection_down
2022-06-27 17:45:58.512 1 [error] <0.29439.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29439.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:45:58.513 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:45:58.513 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:45:58.514 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29438.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4465>,socket_mon =>
#Ref<0.155928093.3973840897.232997>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29439.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:45:58.515 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29439.0>,connection_down}
2022-06-27 17:46:06.389 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:46:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:46:06.390 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:46:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:46:06.391 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4416,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:46:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:46:07.542 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:46:08.515 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
```

```
{gateway_validators_req_v1_pb,1}
2022-06-27 17:46:08.668 1 [info] <0.29444.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:46:08.669 1 [info] <0.29444.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.29443.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:46:08.808 1 [error]
<0.29443.0>@http2_client:handle_settings:822 gen_server <0.29443.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:46:08.808 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29444.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:46:08.809 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:46:08.809 1 [error]
<0.29443.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29443.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```



```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 17:46:08.809 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:46:08.809 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:46:08.809 1 [error]
<0.29444.0>@Undefined:Undefined:Undefined gen_server <0.29444.0>
terminated with reason: connection_down
2022-06-27 17:46:08.809 1 [error]
<0.29444.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.29444.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 17:46:08.810 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29443.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{54,
{<<":authority">>,<<"3.137.92.200">>}}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4466>,socket_mon =>
#Ref<0.155928093.3973840897.233118>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29444.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
```

```
2022-06-27 17:46:08.811 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29444.0>,connection_down}
2022-06-27 17:46:11.620 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 2,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAFwuldTAFi4ABoqXQ3n9oLei0W4CQh50YVs9mxQoFsR9Wy1ub/
CrE5NXqeVymfotw==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
-560,<<"freq">> => 868.5,<<"jver">> => 1,<<"lsnr">> => -8.5,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 1,<<"rssi">> => -107,<<"rssi">>
=> -115,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 3422582915]]} from
12291671073248440251 on 35152
2022-06-27 17:46:17.685 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:46:18.811 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:46:18.966 1 [info] <0.29447.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:46:18.967 1 [info] <0.29447.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.29446.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:46:19.112 1 [error] <0.29446.0>@http2_client:handle_settings:822
gen_server <0.29446.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:46:19.113 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29447.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]}],
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:46:19.113 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:46:19.113 1 [error] <0.29446.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29446.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:46:19.114 1 [error] <0.29447.0>@Undefined:Undefined:Undefined
gen_server <0.29447.0> terminated with reason: connection_down
2022-06-27 17:46:19.114 1 [error] <0.29447.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29447.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:46:19.115 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:46:19.115 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:46:19.116 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29446.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4467>,socket_mon =>
#Ref<0.155928093.3973840897.233205>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29447.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 17:46:19.117 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29447.0>,connection_down}
2022-06-27 17:46:27.840 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:46:29.118 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:46:29.445 1 [info] <0.29450.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:46:29.447 1 [info] <0.29450.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.29449.0>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:46:31.079 1 [error]
<0.29449.0>@http2_client:handle_settings:822 gen_server <0.29449.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:46:31.080 1 [error]
```

<0.29449.0>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.29449.0> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 17:46:31.082 1 [error] <0.29450.0>@Undefined:Undefined:Undefined gen\_server <0.29450.0> terminated with reason: connection\_down  
2022-06-27 17:46:31.082 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.29450.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 17:46:31.082 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}  
2022-06-27 17:46:31.082 1 [error] <0.29450.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.29450.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 17:46:31.083 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 17:46:31.083 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 17:46:31.084 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29449.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4468>,socket_mon =>
#Ref<0.155928093.3973840897.233316>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29450.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 17:46:31.085 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29450.0>,connection_down}
2022-06-27 17:46:36.392 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:46:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:46:36.393 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:46:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:46:36.396 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4420,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:46:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:46:37.996 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 17:46:41.086 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:46:42.323 1 [info] <0.29457.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:46:42.324 1 [info] <0.29457.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.29456.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:46:42.536 1 [error]
<0.29456.0>@http2_client:handle_settings:822 gen_server <0.29456.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:46:42.536 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29457.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:46:42.537 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:46:42.537 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 17:46:42.537 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 17:46:42.538 1 [error]

<0.29456.0>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.29456.0> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 17:46:42.538 1 [error] <0.29457.0>@Undefined:Undefined:Undefined gen\_server <0.29457.0> terminated with reason: connection\_down

2022-06-27 17:46:42.539 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29456.0>,{function\_clause, [{http2\_client,handle\_settings,

[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[[42,

{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,

{<<"content-type">>,<<"application/grpc+proto">>}},{55,

{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/

validators">>}}],host => "35.82.239.134",last\_stream => 1,owner =>

<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},server\_window => 65528,socket => #Port<0.4469>,socket\_mon =>

#Ref<0.155928093.3973840897.233530>,state => open,stream\_count =>

1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>

1,owner => <0.29457.0>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>

gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],

{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},

{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},

{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]

2022-06-27 17:46:42.539 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst



in setup state: Type: info, Msg: {'EXIT',<0.29457.0>,connection\_down}  
2022-06-27 17:46:42.539 1 [error] <0.29457.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.29457.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 17:46:48.142 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 17:46:52.539 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.137.92.200":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 17:46:52.685 1 [info] <0.29494.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 17:46:52.687 1 [info] <0.29494.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"3.137.92.200">>,http\_connection => <0.29493.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 17:46:52.826 1 [error]  
<0.29493.0>@http2\_client:handle\_settings:822 gen\_server <0.29493.0>  
terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 17:46:52.829 1 [error]  
<0.29493.0>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.29493.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 17:46:52.829 1 [error]  
<0.29494.0>@Undefined:Undefined:Undefined gen\_server <0.29494.0>  
terminated with reason: connection\_down  
2022-06-27 17:46:52.829 1 [error]  
<0.29494.0>@Undefined:Undefined:Undefined CRASH REPORT Process  
<0.29494.0> with 0 neighbours exited with reason: connection\_down in  
gen\_server:handle\_common\_reply/8 line 811

```
2022-06-27 17:46:52.830 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29494.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:46:52.830 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 17:46:52.830 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 17:46:52.831 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 17:46:52.833 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29493.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{54,
{<<":authority">>,<<"3.137.92.200">>}}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4475>,socket_mon =>
#Ref<0.155928093.3973316610.251309>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29494.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 17:46:52.833 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29494.0>,connection_down}
2022-06-27 17:46:58.286 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:47:02.833 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:47:03.090 1 [info] <0.29498.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:47:03.091 1 [info] <0.29498.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.29497.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:47:03.344 1 [error]
<0.29497.0>@http2_client:handle_settings:822 gen_server <0.29497.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:47:03.348 1 [error]
<0.29497.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29497.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 17:47:03.349 1 [error] <0.29498.0>@Undefined:Undefined:Undefined
gen_server <0.29498.0> terminated with reason: connection_down
2022-06-27 17:47:03.352 1 [error] <0.29498.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29498.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:47:03.352 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29498.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:47:03.353 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:47:03.354 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:47:03.354 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:47:03.357 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29497.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
```

```
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4476>,socket_mon =>
#Ref<0.155928093.3973840897.233953>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29498.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 17:47:03.358 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29498.0>,connection_down}
2022-06-27 17:47:06.398 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:47:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:47:06.399 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:47:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:47:06.401 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4424,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:47:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:47:08.422 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:47:13.357 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 17:47:13.422 1 [info] <0.29505.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:47:13.423 1 [info] <0.29505.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.29504.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:47:13.482 1 [error]
<0.29504.0>@http2_client:handle_settings:822 gen_server <0.29504.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:47:13.483 1 [error]
<0.29504.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29504.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:47:13.483 1 [error] <0.29505.0>@Undefined:Undefined:Undefined
gen_server <0.29505.0> terminated with reason: connection_down
2022-06-27 17:47:13.484 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29505.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:47:13.484 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:47:13.484 1 [error] <0.29505.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29505.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:47:13.484 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:47:13.484 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:47:13.486 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29504.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4477>,socket_mon =>
#Ref<0.155928093.3973840897.234081>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29505.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 17:47:13.486 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29505.0>,connection_down}
```

2022-06-27 17:47:18.560 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 17:47:21.651 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for  
peerbook <0.1640.0>  
2022-06-27 17:47:23.487 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "54.207.131.103":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 17:47:23.750 1 [info] <0.29511.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 17:47:23.752 1 [info] <0.29511.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"54.207.131.103">>,http\_connection => <0.29510.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 17:47:24.013 1 [error] <0.29510.0>@http2\_client:handle\_settings:822  
gen\_server <0.29510.0> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 17:47:24.016 1 [error] <0.29510.0>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.29510.0> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 17:47:24.016 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.29511.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{"line",247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{"line",418}]}, {grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"}, {"line",278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"}, {"line",721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,



```
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 17:47:24.016 1 [error] <0.29511.0>@Undefined:Undefined:Undefined
gen_server <0.29511.0> terminated with reason: connection_down
2022-06-27 17:47:24.016 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:47:24.017 1 [error] <0.29511.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29511.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:47:24.017 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:47:24.017 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:47:24.019 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29510.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4478>,socket_mon =>
#Ref<0.155928093.3973316610.251869>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29511.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 17:47:24.019 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29511.0>,connection_down}
2022-06-27 17:47:28.689 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:47:34.020 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:47:36.396 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:47:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:47:36.397 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:47:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:47:36.398 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4428,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:47:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 17:47:38.836 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:47:48.976 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:47:59.125 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:48:04.023 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
{file,"miner_poc_grpc_client_statem.erl"},{line,719}}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 17:48:04.023 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:48:04.024 1 [error] <0.29513.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29513.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 17:48:04.025 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29513.0>,timeout}
2022-06-27 17:48:06.403 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:48:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:48:06.404 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:48:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:48:06.405 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4432,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:48:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:48:09.272 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:48:14.026 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:48:14.179 1 [info] <0.29555.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:48:14.183 1 [info] <0.29555.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

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none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.29554.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:48:14.325 1 [error]
<0.29554.0>@http2_client:handle_settings:822 gen_server <0.29554.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:48:14.326 1 [error]
<0.29554.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29554.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:48:14.327 1 [error] <0.29555.0>@Undefined:Undefined:Undefined
gen_server <0.29555.0> terminated with reason: connection_down
2022-06-27 17:48:14.327 1 [error] <0.29555.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29555.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:48:14.327 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29555.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:48:14.328 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 17:48:14.329 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 17:48:14.329 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 17:48:14.330 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29554.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.132.190.192",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4481>,socket\_mon => #Ref<0.155928093.3973840897.235430>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.29555.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 17:48:14.331 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29555.0>,connection\_down}

2022-06-27 17:48:19.426 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 17:48:19.469 1 [info] <0.1662.0>@blockchain\_worker:start\_sync:

```
{888,13} new block sync starting with Pid: <0.29557.0>, Ref:
#Ref<0.155928093.3973840897.235561>, Peer: "/p2p/
11d35HXzW71o2ERKBJ6HPPn6UgBdtxDuz235zuZ4shBYhpDqwtK"
2022-06-27 17:48:20.397 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11d35HXzW71o2ERKBJ6HPPn6UgBdtxDuz235zuZ4shBYhpDqwtK" informed us of
our observed address "/ip4/80.77.186.186/tcp/23424"
2022-06-27 17:48:24.332 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:48:24.596 1 [info] <0.29574.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:48:24.597 1 [info] <0.29574.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.29573.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:48:24.855 1 [error]
<0.29573.0>@http2_client:handle_settings:822 gen_server <0.29573.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:48:24.856 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29574.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

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{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 17:48:24.856 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:48:24.856 1 [error]
<0.29573.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29573.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:48:24.857 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:48:24.857 1 [error] <0.29574.0>@Undefined:Undefined:Undefined
gen_server <0.29574.0> terminated with reason: connection_down
2022-06-27 17:48:24.857 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:48:24.857 1 [error] <0.29574.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29574.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:48:24.859 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29573.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4487>,socket_mon =>
#Ref<0.155928093.3973840897.235915>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29574.0>,server_window => 65528,state =>
```

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half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:48:24.859 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29574.0>,connection_down}
2022-06-27 17:48:25.257 1 [info]
<0.29568.0>@blockchain_sync_handler:handle_data:{132,5} adding sync blocks
[1409926,1409927,1409928,1409929,1409930]
2022-06-27 17:48:28.073 1 [info]
<0.29568.0>@blockchain_sync_handler:handle_data:{142,13} Eagerly re-
gossiping 1409930
2022-06-27 17:48:29.583 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:48:29.661 1 [info] <0.29576.0>@blockchain_txn:validate:{299,5}
valid: [], invalid: []
2022-06-27 17:48:29.736 1 [info] <0.29583.0>@blockchain_txn:absorb:{578,21}
took 28 ms to absorb blockchain_txn_payment_v1
2022-06-27 17:48:30.032 1 [info] <0.29583.0>@blockchain_txn:absorb:{578,21}
took 278 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 17:48:30.136 1 [info] <0.29576.0>@blockchain_txn:absorb:{578,21}
took 352 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 17:48:30.414 1 [info] <0.29583.0>@blockchain_txn:absorb:{578,21}
took 382 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 17:48:30.441 1 [info] <0.29583.0>@blockchain_txn:absorb:{578,21}
took 27 ms to absorb blockchain_txn_validator_heartbeat_v1
2022-06-27 17:48:30.562 1 [info] <0.29576.0>@blockchain_txn:absorb:{578,21}
took 426 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 17:48:30.564 1 [info] <0.29583.0>@blockchain_txn:absorb:{578,21}
took 58 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 17:48:30.608 1 [info] <0.29583.0>@blockchain_txn:absorb:{578,21}
took 43 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 17:48:30.645 1 [info] <0.29583.0>@blockchain_txn:absorb:{578,21}
took 36 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 17:48:30.688 1 [info] <0.29583.0>@blockchain_txn:absorb:{578,21}
took 43 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 17:48:30.714 1 [info] <0.29583.0>@blockchain_txn:absorb:{578,21}
took 26 ms to absorb blockchain_txn_poc_receipts_v2
```



2022-06-27 17:48:30.741 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:30.784 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:30.896 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 334 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 17:48:30.947 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 163 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.019 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.073 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.112 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.158 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.204 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.248 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.322 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.372 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.390 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 494 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 17:48:31.451 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.502 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.539 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.581 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.620 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.668 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.732 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.776 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.843 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 453 ms to absorb blockchain\_txn\_assert\_location\_v2

2022-06-27 17:48:31.848 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.873 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_validator\_heartbeat\_v1  
2022-06-27 17:48:31.879 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:31.899 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_validator\_heartbeat\_v1  
2022-06-27 17:48:31.907 1 [info] <0.29583.0>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:32.068 1 [info]  
<0.29583.0>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected  
241 POCs for block height 1409875  
2022-06-27 17:48:32.217 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:32.276 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:32.340 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:32.410 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:32.467 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:32.547 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 80 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:32.629 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:32.680 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:32.717 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:32.758 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:32.796 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:32.841 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:32.913 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:32.984 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.054 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.106 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}

took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.161 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.214 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.257 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.333 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.395 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.442 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.515 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.613 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 97 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.680 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.729 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.810 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 81 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.888 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.931 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:33.979 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.027 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.077 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.115 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.173 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.243 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.314 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.359 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.416 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}

took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.494 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.544 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.604 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.649 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.701 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.750 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.824 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.867 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "44.229.159.157":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 17:48:34.920 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 96 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:34.976 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:35.016 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:35.053 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:35.082 1 [info] <0.29585.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 17:48:35.083 1 [info] <0.29585.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"44.229.159.157">>,http\_connection => <0.29584.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[ ]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 17:48:35.104 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:35.146 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:35.184 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}

took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:35.225 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:35.254 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:35.292 1 [error]  
<0.29584.0>@http2\_client:handle\_settings:822 gen\_server <0.29584.0>  
terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 17:48:35.294 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.29585.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{}file,"gen\_server.erl"],{}line,247]}},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{}file,"grpc\_client\_stream\_custom.erl"],{}line,418]}},{}grpc\_client\_custom,unary,6,  
[{}file,"grpc\_client\_custom.erl"],{}line,278]}},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{}file,"miner\_poc\_grpc\_client\_statem.erl"],{}line,721]}},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{}file,"miner\_poc\_grpc\_client\_statem.erl"],{}line,467]}},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{}file,"miner\_poc\_grpc\_client\_statem.erl"],{}line,221]}},  
{gen\_statem,loop\_state\_callback,11,[{}file,"gen\_statem.erl"],{}line,1203]}},  
{proc\_lib,init\_p\_do\_apply,3,[{}file,"proc\_lib.erl"],{}line,226]}]}  
2022-06-27 17:48:35.294 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 17:48:35.294 1 [error]  
<0.29584.0>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.29584.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 17:48:35.295 1 [error] <0.29585.0>@Undefined:Undefined:Undefined  
gen\_server <0.29585.0> terminated with reason: connection\_down  
2022-06-27 17:48:35.295 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 17:48:35.295 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 17:48:35.295 1 [error] <0.29585.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.29585.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 17:48:35.296 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29584.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{56, {<<":authority">>,<<"44.229.159.157">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "44.229.159.157",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4488>,socket\_mon => #Ref<0.155928093.3973840897.237538>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.29585.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}

2022-06-27 17:48:35.297 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29585.0>,connection\_down}

2022-06-27 17:48:35.330 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21} took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:48:35.362 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21} took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:48:35.444 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21} took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:48:35.534 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}

took 90 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:35.627 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 92 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:35.695 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:35.759 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:35.820 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:35.876 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:35.930 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:35.988 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.033 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.106 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.163 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.217 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.269 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.329 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.389 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.405 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:48:36 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 17:48:36.406 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:48:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 17:48:36.407 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4436,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>

<<"2022-06-27 17:48:36 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 17:48:36.441 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.508 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.602 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 94 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.671 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.739 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.782 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.828 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.864 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.913 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.957 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:36.990 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.027 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.063 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.099 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.134 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.183 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.248 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.297 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.364 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.444 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 80 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.476 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2



2022-06-27 17:48:37.519 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.583 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.641 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.693 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.739 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.806 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.835 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.877 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.924 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:37.967 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:38.037 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:38.109 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:38.167 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:38.230 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:38.267 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:38.323 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:38.419 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 96 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:38.486 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:38.576 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 89 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:38.670 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 95 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:38.759 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 89 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:38.835 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:48:38.872 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:38.936 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:38.983 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.046 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.096 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.169 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.208 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.291 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.374 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 83 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.470 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 95 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.550 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.592 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.628 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.655 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.707 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.728 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 17:48:39.741 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.803 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.861 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.894 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.953 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:39.999 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}

took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:40.076 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:40.174 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 97 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:40.248 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:40.323 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 75 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:40.388 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:40.494 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 105 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:40.588 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:40.689 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 101 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:40.781 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 91 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:40.879 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 98 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:40.949 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:40.983 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:41.060 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:41.095 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:41.133 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:41.203 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:41.246 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:41.315 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:41.414 1 [info] <0.29576.0>@blockchain\_txn:absorb:{578,21}  
took 99 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:41.563 1 [info]  
<0.29576.0>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected  
212 POCs for block height 1409926  
2022-06-27 17:48:41.793 1 [error] emulator@Undefined:Undefined:Undefined  
Error in process <0.29576.0> on node 'miner@127.0.0.1' with exit value:

```
{{badmatch,{error,{error,"Corruption: block checksum mismatch: stored =
1975174337, computed = 3807013015 in /var/data/blockchain.db/015769.sst offset
486887 size 514635"}},[{blockchain,save_block,2,[{file,"blockchain.erl"},
{line,2535}]},{blockchain,'-add_block_/3-fun-0-',5,[{file,"blockchain.erl"},
{line,1136}]},{blockchain_txn,unvalidated_absorb_and_commit,4,
[{file,"blockchain_txn.erl"},{line,508}]},{blockchain,add_block_,3,
[{file,"blockchain.erl"},{line,1157}]},{blockchain,'-check_plausible_blocks/2-
fun-1-',4,[{file,"blockchain.erl"},{line,2989}]},{lists,foreach,2,[{file,"lists.erl"},
{line,1342}]},{blockchain,check_plausible_blocks,2,[{file,"blockchain.erl"},
{line,2983}]}}]}}
2022-06-27 17:48:41.811 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 17:48:41.834 1 [info] <0.1662.0>@blockchain_worker:start_sync:
{888,13} new block sync starting with Pid: <0.29587.0>, Ref:
#Ref<0.155928093.3973316610.252735>, Peer: "/p2p/
11Bw2FneNQtFBSw4cbsX2V2H5LYopTz4jbjDKBAiyLRNJhj9Bpn"
2022-06-27 17:48:43.190 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11Bw2FneNQtFBSw4cbsX2V2H5LYopTz4jbjDKBAiyLRNJhj9Bpn" informed us of
our observed address "/ip4/80.77.186.186/tcp/65201"
2022-06-27 17:48:45.300 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:48:45.519 1 [info] <0.29604.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:48:45.520 1 [info] <0.29604.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.29603.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:48:45.739 1 [error]
<0.29603.0>@http2_client:handle_settings:822 gen_server <0.29603.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:48:45.740 1 [error]
```

```
<0.29603.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29603.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:48:45.740 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29604.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:48:45.740 1 [error] <0.29604.0>@Undefined:Undefined:Undefined
gen_server <0.29604.0> terminated with reason: connection_down
2022-06-27 17:48:45.740 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:48:45.741 1 [error] <0.29604.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29604.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:48:45.741 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:48:45.741 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:48:45.743 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29603.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"52.220.227.216">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4494>,socket_mon =>
#Ref<0.155928093.3973840897.238774>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29604.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:48:45.744 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29604.0>,connection_down}
2022-06-27 17:48:49.885 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:48:52.677 1 [info]
<0.29598.0>@blockchain_sync_handler:handle_data:{132,5} adding sync blocks
[1409926,1409927,1409928,1409929,1409930]
2022-06-27 17:48:55.581 1 [info]
<0.29598.0>@blockchain_sync_handler:handle_data:{142,13} Eagerly re-
gossiping 1409930
2022-06-27 17:48:55.745 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:48:55.813 1 [info] <0.29619.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:48:55.817 1 [info] <0.29619.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.29618.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:48:55.876 1 [error]
<0.29618.0>@http2_client:handle_settings:822 gen_server <0.29618.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:48:55.879 1 [error]
<0.29618.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29618.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:48:55.880 1 [error] <0.29619.0>@Undefined:Undefined:Undefined
gen_server <0.29619.0> terminated with reason: connection_down
2022-06-27 17:48:55.881 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29619.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:48:55.881 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:48:55.881 1 [error] <0.29619.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29619.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:48:55.883 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 17:48:55.884 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 17:48:55.886 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29618.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{53, {<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.70.55.231",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4495>,socket\_mon => #Ref<0.155928093.3973840897.239123>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.29619.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 17:48:55.887 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29619.0>,connection\_down}  
2022-06-27 17:48:57.221 1 [info] <0.29617.0>@blockchain\_txn:validate:{299,5} valid: [], invalid: []  
2022-06-27 17:48:57.300 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21} took 29 ms to absorb blockchain\_txn\_payment\_v1  
2022-06-27 17:48:57.651 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21} took 335 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 17:48:57.733 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}



took 364 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 17:48:57.969 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 317 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 17:48:57.997 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_validator\_heartbeat\_v1  
2022-06-27 17:48:58.087 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 90 ms to absorb blockchain\_txn\_validator\_heartbeat\_v1  
2022-06-27 17:48:58.099 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 365 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 17:48:58.146 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_validator\_heartbeat\_v1  
2022-06-27 17:48:58.250 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:58.275 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:58.302 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:58.354 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:58.416 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:58.466 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:58.520 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:58.556 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 456 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 17:48:58.589 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:58.644 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:58.707 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:58.739 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:58.778 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:58.821 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:58.870 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:58.998 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 441 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 17:48:59.037 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}

took 141 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:59.094 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:59.166 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:59.208 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:59.245 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:59.287 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:59.321 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:59.368 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:59.433 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:59.464 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 465 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 17:48:59.480 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:59.496 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_validator\_heartbeat\_v1  
2022-06-27 17:48:59.522 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_validator\_heartbeat\_v1  
2022-06-27 17:48:59.547 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:59.573 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:59.600 1 [info] <0.29631.0>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:59.783 1 [info]  
<0.29631.0>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected  
241 POCs for block height 1409875  
2022-06-27 17:48:59.878 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:48:59.934 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.002 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.033 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 17:49:00.072 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}

took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.131 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.214 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 83 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.285 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.342 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.371 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.447 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.481 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.524 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.598 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.673 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.747 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.801 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.861 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.922 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:00.965 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.046 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 81 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.113 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.166 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.252 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 85 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.330 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.362 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.400 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}

took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.455 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.520 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.579 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.648 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.708 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.768 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.808 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.855 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.914 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:01.986 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.026 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.083 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.163 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.220 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.282 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.328 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.382 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.431 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.507 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 75 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.599 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 92 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.653 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.686 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}

took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.722 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.766 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.803 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.841 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.878 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.904 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.929 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.962 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:02.992 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.069 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.157 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 87 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.249 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 92 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.305 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.335 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.373 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.417 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.469 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.531 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.574 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.644 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.701 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.755 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}

took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.810 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.866 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.928 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:03.983 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.049 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.139 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 89 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.187 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.263 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.336 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.384 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.420 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.467 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.517 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.560 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.619 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.669 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.724 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.777 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.847 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.938 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 87 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:04.988 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.053 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}

took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.137 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 84 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.179 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.264 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.307 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.347 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.382 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.469 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.513 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.547 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.590 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.662 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.736 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.796 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.860 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.890 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.30.1.39":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 17:49:05.897 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.952 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:05.974 1 [info] <0.29643.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 17:49:05.977 1 [info] <0.29643.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"52.30.1.39">>,http\_connection => <0.29642.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:49:06.026 1 [info] <0.29617.0>@blockchain_txn:absorb:{578,21}
took 74 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 17:49:06.036 1 [error]
<0.29642.0>@http2_client:handle_settings:822 gen_server <0.29642.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:49:06.036 1 [error]
<0.29642.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29642.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:49:06.037 1 [error] <0.29643.0>@Undefined:Undefined:Undefined
gen_server <0.29643.0> terminated with reason: connection_down
2022-06-27 17:49:06.037 1 [error] <0.29643.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29643.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:49:06.037 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29643.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:49:06.037 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```



```
<<"stream create failed">>}}
2022-06-27 17:49:06.038 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:49:06.038 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:49:06.038 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29642.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4496>,socket_mon =>
#Ref<0.155928093.3973316610.253752>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29643.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}]}
2022-06-27 17:49:06.039 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29643.0>,connection_down}
2022-06-27 17:49:06.062 1 [info] <0.29617.0>@blockchain_txn:absorb:{578,21}
took 36 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 17:49:06.111 1 [info] <0.29617.0>@blockchain_txn:absorb:{578,21}
took 48 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 17:49:06.159 1 [info] <0.29617.0>@blockchain_txn:absorb:{578,21}
```

took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:06.210 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:06.257 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:06.307 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:06.387 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:06.408 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:49:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 17:49:06.409 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:49:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 17:49:06.410 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4440,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:49:06 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 17:49:06.460 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:06.557 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 97 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:06.631 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:06.709 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:06.757 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:06.848 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 90 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:06.887 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:06.933 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:06.980 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:49:07.018 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:07.052 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:07.179 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:07.231 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:07.265 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:07.333 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:07.427 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:07.505 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:07.603 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 98 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:07.701 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 98 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:07.799 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 98 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:07.871 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:07.919 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:07.975 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:08.021 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:08.093 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:08.161 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:08.218 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:08.244 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:08.315 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:08.407 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 91 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 17:49:08.447 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:49:08.525 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21} took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:49:08.624 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21} took 99 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:49:08.684 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21} took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:49:08.731 1 [info] <0.29617.0>@blockchain\_txn:absorb:{578,21} took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 17:49:08.902 1 [info] <0.29617.0>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected 212 POCs for block height 1409926

2022-06-27 17:49:09.176 1 [error] emulator@Undefined:Undefined:Undefined Error in process <0.29617.0> on node 'miner@127.0.0.1' with exit value: {{{badmatch,{error,{error,"Corruption: block checksum mismatch: stored = 1975174337, computed = 3807013015 in /var/data/blockchain.db/015769.sst offset 486887 size 514635"}},[{blockchain,save\_block,2,[{file,"blockchain.erl"},{line,2535}]},{blockchain,'-add\_block\_/3-fun-0-',5,[{file,"blockchain.erl"},{line,1136}]},{blockchain\_txn,unvalidated\_absorb\_and\_commit,4,[{file,"blockchain\_txn.erl"},{line,508}]},{blockchain,add\_block\_,3,[{file,"blockchain.erl"},{line,1157}]},{blockchain,'-check\_plausible\_blocks/2-fun-1-',4,[{file,"blockchain.erl"},{line,2989}]},{lists,foreach,2,[{file,"lists.erl"},{line,1342}]},{blockchain,check\_plausible\_blocks,2,[{file,"blockchain.erl"},{line,2983}]}}}}

2022-06-27 17:49:09.206 1 [info] <0.1662.0>@blockchain\_worker:handle\_info:{673,53} block sync down: normal

2022-06-27 17:49:10.179 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 17:49:11.849 1 [warning] <0.1640.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/11zucLg9DvRjMQHuyKDXR3oCJPznWc3hXj58FFHJa9Fnarjetsa": [{"ip4/111.248.104.28/tcp/44196",timeout}]

2022-06-27 17:49:16.040 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.207.131.103": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 17:49:16.309 1 [info] <0.29647.0>@grpc\_client\_stream\_custom:init:{131,9} init stream for RPC validators and type unary

2022-06-27 17:49:16.311 1 [info] <0.29647.0>@grpc\_client\_stream\_custom:init:{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"54.207.131.103">>,http\_connection => <0.29646.0>,scheme => <<"http">>,encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}},name =>

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:49:16.568 1 [error]
<0.29646.0>@http2_client:handle_settings:822 gen_server <0.29646.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:49:16.570 1 [error]
<0.29646.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29646.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:49:16.570 1 [error] <0.29647.0>@Undefined:Undefined:Undefined
gen_server <0.29647.0> terminated with reason: connection_down
2022-06-27 17:49:16.571 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29647.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:49:16.571 1 [error] <0.29647.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29647.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:49:16.571 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:49:16.572 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 17:49:16.572 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 17:49:16.575 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29646.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {56, {<<":authority">>,<<"54.207.131.103">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "54.207.131.103",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4502>,socket\_mon => #Ref<0.155928093.3973840897.241862>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.29647.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}

2022-06-27 17:49:16.576 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29647.0>,connection\_down}

2022-06-27 17:49:20.326 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 17:49:26.575 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.38.70.101":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 17:49:30.482 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 17:49:33.323 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"rxpk">> => [#{<<"chan">> => 0,<<"codr">> => <<"4/5">>,<<"data">> => <<"QDDaAAHQjSd9AFnyAldsOhj7wiJOXexV+v4R177BceZfqVbW9KaNpwADrFCsF1qCqkp9xw==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> => 514,<<"freq">> => 868.1,<<"jver">> => 1,<<"lsnr">> => -21.0,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">> => 1,<<"rssi">> => -110,<<"rssi">> => -130,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 3624278351}}} from 12291671073248440251 on 35152  
2022-06-27 17:49:36.412 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 17:49:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 17:49:36.413 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 17:49:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 17:49:36.416 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4444,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 17:49:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 17:49:40.635 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 17:49:50.769 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 17:49:56.579 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[{"miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,719}]},  
{"miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{"miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{"gen\_statem,loop\_state\_callback,11,[{"file,"gen\_statem.erl"},{line,1203}]}],

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:49:56.579 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:49:56.581 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29651.0>,timeout}
2022-06-27 17:49:56.582 1 [error] <0.29651.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29651.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 17:49:56.932 1 [info] <0.29655.0>@libp2p_transport_proxy:connect:
{38,5} init proxy with ["/p2p/
11etoHCwwveyYYEk3JpDtNEuw9pcujQ46DRjcm38Kc2KZ6JpYqS"/p2p/
112Sf43zyqd6hmT67kX8gpAAGqK11cY6dT4WXsJoBWnCjGrRRbfz"]
2022-06-27 17:49:56.944 1 [error]
<0.29655.0>@libp2p_transport_proxy:connect_to:{69,13} failed to dial proxy
server "/p2p/11etoHCwwveyYYEk3JpDtNEuw9pcujQ46DRjcm38Kc2KZ6JpYqS"
not_found
2022-06-27 17:49:56.951 1 [warning]
<0.1640.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
112Sf43zyqd6hmT67kX8gpAAGqK11cY6dT4WXsJoBWnCjGrRRbfz": [{"/p2p/
11etoHCwwveyYYEk3JpDtNEuw9pcujQ46DRjcm38Kc2KZ6JpYqS/p2p-circuit/p2p/
112Sf43zyqd6hmT67kX8gpAAGqK11cY6dT4WXsJoBWnCjGrRRbfz",fail_dial_proxy}
]
2022-06-27 17:50:00.916 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:50:06.415 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:50:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:50:06.416 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:50:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:50:06.419 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4448,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:50:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
```



```
2022-06-27 17:50:06.581 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:50:06.650 1 [info] <0.29689.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:50:06.652 1 [info] <0.29689.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.29688.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:50:06.709 1 [error]
<0.29688.0>@http2_client:handle_settings:822 gen_server <0.29688.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:50:06.710 1 [error]
<0.29688.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29688.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:50:06.711 1 [error] <0.29689.0>@Undefined:Undefined:Undefined
gen_server <0.29689.0> terminated with reason: connection_down
2022-06-27 17:50:06.711 1 [error] <0.29689.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29689.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:50:06.712 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29689.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:50:06.713 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:50:06.713 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:50:06.713 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:50:06.716 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29688.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4513>,socket_mon =>
#Ref<0.155928093.3973840897.242485>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29689.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}]}}
2022-06-27 17:50:06.717 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29689.0>,connection_down}
2022-06-27 17:50:11.059 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:50:16.717 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:50:16.785 1 [info] <0.29696.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:50:16.786 1 [info] <0.29696.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.29695.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:50:16.845 1 [error]
<0.29695.0>@http2_client:handle_settings:822 gen_server <0.29695.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:50:16.846 1 [error]
<0.29695.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29695.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:50:16.846 1 [error] <0.29696.0>@Undefined:Undefined:Undefined
gen_server <0.29696.0> terminated with reason: connection_down
2022-06-27 17:50:16.847 1 [error] <0.29696.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29696.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:50:16.848 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.29696.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:50:16.848 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:50:16.849 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:50:16.849 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:50:16.851 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29695.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.72.143.228">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4514>,socket_mon =>
#Ref<0.155928093.3973840897.242556>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29696.0>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl",{line,226}}}}}}
2022-06-27 17:50:16.852 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29696.0>,connection_down}
2022-06-27 17:50:17.031 1 [info] <0.29698.0>@libp2p_transport_proxy:connect:
{38,5} init proxy with ["/p2p/
11ejbwfBvKb8ohzSmaUuSSTsS6x38NstQw96r3v1T7k2q5ajr65","/p2p/
112erSbHXPXguGoQQAmnTW8Tu9HeWryj4sp5XHSvzdHgtircG5TP"]
2022-06-27 17:50:18.282 1 [info] <0.29709.0>@libp2p_stream_proxy:init:{63,5}
init proxy client with {{connection,libp2p_yamux_stream,<0.29705.0>},
[{swarm,<0.1624.0>},{p2p_circuit,"/p2p/
11ejbwfBvKb8ohzSmaUuSSTsS6x38NstQw96r3v1T7k2q5ajr65/p2p-circuit/p2p/
112erSbHXPXguGoQQAmnTW8Tu9HeWryj4sp5XHSvzdHgtircG5TP"},
{transport,<0.29698.0>},
{id,<<175,197,80,25,223,59,148,209,19,48,44,91,55,215,156,59>>}}]}
2022-06-27 17:50:18.379 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11ejbwfBvKb8ohzSmaUuSSTsS6x38NstQw96r3v1T7k2q5ajr65" informed us of our
observed address "/ip4/80.77.186.186/tcp/24858"
2022-06-27 17:50:21.210 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:50:23.426 1 [error]
<0.29698.0>@libp2p_transport_proxy:connect_rcv:{113,13} stream <0.29709.0>
went down normal
2022-06-27 17:50:23.428 1 [warning]
<0.1640.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
112erSbHXPXguGoQQAmnTW8Tu9HeWryj4sp5XHSvzdHgtircG5TP": [{"/p2p/
11ejbwfBvKb8ohzSmaUuSSTsS6x38NstQw96r3v1T7k2q5ajr65/p2p-circuit/p2p/
112erSbHXPXguGoQQAmnTW8Tu9HeWryj4sp5XHSvzdHgtircG5TP",stream_down}
]
2022-06-27 17:50:26.852 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:50:27.065 1 [info] <0.29715.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 17:50:27.066 1 [info] <0.29715.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.29714.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:50:27.269 1 [error] <0.29714.0>@http2_client:handle_settings:822
gen_server <0.29714.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:50:27.269 1 [error] <0.29714.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29714.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:50:27.270 1 [error] <0.29715.0>@Undefined:Undefined:Undefined
gen_server <0.29715.0> terminated with reason: connection_down
2022-06-27 17:50:27.270 1 [error] <0.29715.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29715.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:50:27.270 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29715.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:50:27.270 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 17:50:27.271 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 17:50:27.271 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 17:50:27.272 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.29714.0>,{function\_clause,  
[http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,  
{<<":authority">>,<<"44.229.159.157">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "44.229.159.157",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4524>,socket\_mon =>  
#Ref<0.155928093.3973316610.255489>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.29715.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 17:50:27.273 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.29715.0>,connection\_down}  
2022-06-27 17:50:31.363 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 17:50:36.408 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:50:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:50:36.409 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:50:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:50:36.410 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4452,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:50:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:50:37.274 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:50:37.340 1 [info] <0.29718.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:50:37.342 1 [info] <0.29718.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.29717.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:50:37.403 1 [error] <0.29717.0>@http2_client:handle_settings:822
gen_server <0.29717.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:50:37.405 1 [error] <0.29717.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29717.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```



```
2022-06-27 17:50:37.409 1 [error] <0.29718.0>@Undefined:Undefined:Undefined
gen_server <0.29718.0> terminated with reason: connection_down
2022-06-27 17:50:37.410 1 [error] <0.29718.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29718.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:50:37.410 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29718.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:50:37.411 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:50:37.412 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:50:37.412 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:50:37.418 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29717.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"3.72.215.7">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4525>,socket_mon =>
#Ref<0.155928093.3973840897.242897>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29718.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 17:50:37.418 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29718.0>,connection_down}
2022-06-27 17:50:41.512 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:50:47.415 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:50:47.564 1 [info] <0.29721.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:50:47.567 1 [info] <0.29721.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.29720.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:50:47.710 1 [error] <0.29720.0>@http2_client:handle_settings:822
gen_server <0.29720.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:50:47.711 1 [error] <0.29720.0>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.29720.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:50:47.712 1 [error] <0.29721.0>@Undefined:Undefined:Undefined
gen_server <0.29721.0> terminated with reason: connection_down
2022-06-27 17:50:47.713 1 [error] <0.29721.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29721.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:50:47.716 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29721.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:50:47.717 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:50:47.718 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:50:47.718 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:50:47.719 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29720.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4526>,socket_mon =>
#Ref<0.155928093.3973840897.242962>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29721.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 17:50:47.720 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29721.0>,connection_down}
2022-06-27 17:50:51.667 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:50:57.721 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:50:57.948 1 [info] <0.29724.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:50:57.949 1 [info] <0.29724.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.29723.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:50:58.161 1 [error] <0.29723.0>@http2_client:handle_settings:822
gen_server <0.29723.0> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:50:58.161 1 [error] <0.29723.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29723.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:50:58.163 1 [error] <0.29724.0>@Undefined:Undefined:Undefined
gen_server <0.29724.0> terminated with reason: connection_down
2022-06-27 17:50:58.163 1 [error] <0.29724.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29724.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:50:58.164 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29724.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:50:58.165 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:50:58.165 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:50:58.166 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:50:58.167 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29723.0>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"52.89.130.114">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4527>,socket_mon =>
#Ref<0.155928093.3973840897.243034>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29724.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:50:58.168 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29724.0>,connection_down}
2022-06-27 17:51:01.813 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:51:06.411 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:51:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:51:06.412 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:51:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:51:06.414 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=4456,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:51:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 17:51:08.169 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:51:08.487 1 [info] <0.29744.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:51:08.488 1 [info] <0.29744.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.29741.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:51:08.803 1 [error] <0.29741.0>@http2_client:handle_settings:822
gen_server <0.29741.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:51:08.804 1 [error] <0.29741.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29741.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:51:08.805 1 [error] <0.29744.0>@Undefined:Undefined:Undefined
gen_server <0.29744.0> terminated with reason: connection_down
2022-06-27 17:51:08.805 1 [error] <0.29744.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29744.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:51:08.806 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29744.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:51:08.806 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:51:08.806 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:51:08.807 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:51:08.810 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29741.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4528>,socket_mon =>
#Ref<0.155928093.3973316610.256284>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29744.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
```



```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 17:51:08.811 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29744.0>,connection_down}
2022-06-27 17:51:11.945 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:51:18.810 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:51:19.025 1 [info] <0.29756.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:51:19.027 1 [info] <0.29756.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.29755.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:51:19.234 1 [error] <0.29755.0>@http2_client:handle_settings:822
gen_server <0.29755.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:51:19.236 1 [error] <0.29755.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29755.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:51:19.237 1 [error] <0.29756.0>@Undefined:Undefined:Undefined
gen_server <0.29756.0> terminated with reason: connection_down
2022-06-27 17:51:19.237 1 [error] <0.29756.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29756.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:51:19.237 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29756.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
{file,"gen_server.erl"},{line,247}}},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:51:19.238 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:51:19.239 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:51:19.240 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:51:19.244 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29755.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4529>,socket_mon =>
#Ref<0.155928093.3973316610.256434>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29756.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 17:51:19.245 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29756.0>,connection_down}
2022-06-27 17:51:22.083 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:51:29.244 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:51:29.503 1 [info] <0.29761.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:51:29.504 1 [info] <0.29761.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.29760.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:51:29.760 1 [error]
<0.29760.0>@http2_client:handle_settings:822 gen_server <0.29760.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:51:29.762 1 [error] <0.29760.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29760.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:51:29.763 1 [error] <0.29761.0>@Undefined:Undefined:Undefined
gen_server <0.29761.0> terminated with reason: connection_down
```

```
2022-06-27 17:51:29.763 1 [error] <0.29761.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29761.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:51:29.764 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29761.0>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:51:29.765 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:51:29.766 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:51:29.766 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:51:29.769 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29760.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"18.230.8.198">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4535>,socket_mon =>
#Ref<0.155928093.3973840897.243668>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29761.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 17:51:29.770 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29761.0>,connection_down}
2022-06-27 17:51:31.789 1 [warning]
<0.1643.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
11HfbGBxFA9VqZFEgHC9NVWf7tsYHp9njwaDiT9UDDP6sQrbmUM": [{"/
ip4/212.227.160.153/tcp/44158",timeout}]
2022-06-27 17:51:32.222 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:51:36.414 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:51:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:51:36.414 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:51:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:51:36.417 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4460,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:51:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 17:51:39.769 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:51:40.044 1 [info] <0.29764.0>@grpc_client_stream_custom:init:
```

```
{131,9} init stream for RPC validators and type unary
2022-06-27 17:51:40.046 1 [info] <0.29764.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.29763.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:51:40.298 1 [error]
<0.29763.0>@http2_client:handle_settings:822 gen_server <0.29763.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:51:40.299 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29764.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:51:40.299 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:51:40.299 1 [error]
<0.29763.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29763.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 17:51:40.300 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:51:40.300 1 [error] <0.29764.0>@Undefined:Undefined:Undefined
gen_server <0.29764.0> terminated with reason: connection_down
2022-06-27 17:51:40.300 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:51:40.300 1 [error] <0.29764.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29764.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:51:40.301 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29763.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4536>,socket_mon =>
#Ref<0.155928093.3973054468.195175>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29764.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:51:40.301 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29764.0>,connection_down}
2022-06-27 17:51:42.366 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:51:50.303 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:51:50.617 1 [info] <0.29767.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:51:50.618 1 [info] <0.29767.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.29766.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:51:50.926 1 [error]
<0.29766.0>@http2_client:handle_settings:822 gen_server <0.29766.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:51:50.928 1 [error]
<0.29766.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29766.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:51:50.929 1 [error] <0.29767.0>@Undefined:Undefined:Undefined
gen_server <0.29767.0> terminated with reason: connection_down
2022-06-27 17:51:50.929 1 [error] <0.29767.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29767.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:51:50.930 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29767.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]}],
```



```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]
2022-06-27 17:51:50.930 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:51:50.931 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:51:50.931 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:51:50.932 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29766.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4537>,socket_mon =>
#Ref<0.155928093.3973840897.244012>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29767.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]]
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 17:51:50.933 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29767.0>,connection_down}
2022-06-27 17:51:52.519 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:52:00.934 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:52:01.010 1 [info] <0.29770.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:52:01.011 1 [info] <0.29770.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.29769.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:52:01.079 1 [error] <0.29769.0>@http2_client:handle_settings:822
gen_server <0.29769.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:52:01.080 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29770.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:52:01.080 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:52:01.080 1 [error]
<0.29769.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29769.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:52:01.081 1 [error] <0.29770.0>@Undefined:Undefined:Undefined
gen_server <0.29770.0> terminated with reason: connection_down
2022-06-27 17:52:01.081 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:52:01.081 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:52:01.081 1 [error] <0.29770.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29770.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:52:01.082 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29769.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4538>,socket_mon =>
#Ref<0.155928093.3973840897.244192>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.29770.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 17:52:01.083 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29770.0>,connection_down}
2022-06-27 17:52:02.673 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:52:06.415 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:52:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:52:06.416 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:52:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:52:06.418 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4464,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:52:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:52:11.084 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:52:11.345 1 [info] <0.29780.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:52:11.348 1 [info] <0.29780.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.29779.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]}],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:52:11.595 1 [error] <0.29779.0>@http2_client:handle_settings:822
gen_server <0.29779.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:52:11.596 1 [error] <0.29779.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29779.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:52:11.597 1 [error] <0.29780.0>@Undefined:Undefined:Undefined
gen_server <0.29780.0> terminated with reason: connection_down
2022-06-27 17:52:11.597 1 [error] <0.29780.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29780.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:52:11.598 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29780.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:52:11.598 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:52:11.599 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:52:11.600 1 [warning]
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<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 17:52:11.601 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29779.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[[{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]}],host => "18.230.8.198",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4539>,socket\_mon => #Ref<0.155928093.3973840897.244449>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.29780.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}]  
2022-06-27 17:52:11.601 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29780.0>,connection\_down}  
2022-06-27 17:52:12.822 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 17:52:21.602 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.207.131.103":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 17:52:21.653 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for peerbook <0.1640.0>

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2022-06-27 17:52:21.910 1 [info] <0.29802.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:52:21.911 1 [info] <0.29802.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.29801.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:52:22.251 1 [error] <0.29801.0>@http2_client:handle_settings:822
gen_server <0.29801.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:52:22.253 1 [error]
<0.29801.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29801.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:52:22.253 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29802.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:52:22.253 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 17:52:22.254 1 [error] <0.29802.0>@Undefined:Undefined:Undefined  
gen\_server <0.29802.0> terminated with reason: connection\_down

2022-06-27 17:52:22.254 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 17:52:22.254 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 17:52:22.254 1 [error] <0.29802.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.29802.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 17:52:22.258 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.29801.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{56,  
{<<":authority">>,<<"54.207.131.103">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}]}},host => "54.207.131.103",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4540>,socket\_mon =>  
#Ref<0.155928093.3973840897.244816>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.29802.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}

2022-06-27 17:52:22.259 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.29802.0>,connection\_down}

2022-06-27 17:52:22.969 1 [info]



```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:52:32.256 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:52:32.577 1 [info] <0.29805.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:52:32.578 1 [info] <0.29805.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.29804.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:52:32.893 1 [error]
<0.29804.0>@http2_client:handle_settings:822 gen_server <0.29804.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:52:32.894 1 [error]
<0.29804.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29804.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:52:32.895 1 [error] <0.29805.0>@Undefined:Undefined:Undefined
gen_server <0.29805.0> terminated with reason: connection_down
2022-06-27 17:52:32.895 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29805.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:52:32.895 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:52:32.895 1 [error] <0.29805.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29805.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:52:32.895 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:52:32.896 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:52:32.897 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29804.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4541>,socket_mon =>
#Ref<0.155928093.3973316611.136025>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29805.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 17:52:32.897 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29805.0>,connection_down}
2022-06-27 17:52:33.109 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:52:36.417 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:52:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:52:36.418 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:52:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:52:36.420 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4468,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:52:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:52:42.898 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:52:43.159 1 [info] <0.29808.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:52:43.160 1 [info] <0.29808.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.29807.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:52:43.265 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

```
12291671073248440251 on 56833
2022-06-27 17:52:43.419 1 [error]
<0.29807.0>@http2_client:handle_settings:822 gen_server <0.29807.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:52:43.420 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29808.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:52:43.421 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:52:43.422 1 [error]
<0.29807.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29807.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:52:43.422 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:52:43.423 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:52:43.423 1 [error] <0.29808.0>@Undefined:Undefined:Undefined
gen_server <0.29808.0> terminated with reason: connection_down
2022-06-27 17:52:43.424 1 [error] <0.29808.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29808.0> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:52:43.429 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29807.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4542>,socket_mon =>
#Ref<0.155928093.3973840897.245166>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29808.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:52:43.430 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29808.0>,connection_down}
2022-06-27 17:52:53.409 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:52:53.425 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:52:53.505 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,ehostunreach}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 17:52:53.506 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:52:53.507 1 [error] <0.29810.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29810.0> with 0 neighbours exited with reason:
ehostunreach in gen_server:init_it/6 line 407
2022-06-27 17:52:53.507 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29810.0>,ehostunreach}
2022-06-27 17:52:58.235 1 [info] <0.1636.0>@libp2p_peerbook:notify_peers:
{726,5} gossiping out 2 notify peers
2022-06-27 17:53:03.508 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:53:03.559 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:53:04.617 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,ehostunreach}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 17:53:04.617 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:53:04.617 1 [error] <0.29813.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29813.0> with 0 neighbours exited with reason:
ehostunreach in gen_server:init_it/6 line 407
2022-06-27 17:53:04.618 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

in setup state: Type: info, Msg: {'EXIT',<0.29813.0>,ehostunreach}  
2022-06-27 17:53:06.423 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:53:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 17:53:06.423 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:53:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 17:53:06.424 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4472,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:53:06 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 17:53:06.485 1 [notice]  
<0.28341.0>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 17:53:06.639 1 [info] <0.1657.0>@libp2p\_relay\_server:handle\_info:  
{172,5} Relay session with address "/p2p/  
112p82oyKNao9pHYQk4U3sEgnNWLYQJmVNvN5tSHH18XkDEJYzqH/p2p-circuit/  
p2p/11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv" closed  
with reason normal  
2022-06-27 17:53:09.176 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 17:53:11.703 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 17:53:13.710 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 17:53:14.223 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 17:53:14.619 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "54.251.77.229":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 17:53:15.058 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,ehostunreach}},

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[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}]
2022-06-27 17:53:15.058 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:53:15.060 1 [error] <0.29819.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29819.0> with 0 neighbours exited with reason:
ehostunreach in gen_server:init_it/6 line 407
2022-06-27 17:53:15.061 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29819.0>,ehostunreach}
2022-06-27 17:53:15.971 1 [notice]
<0.29659.0>@libp2p_yamux_session:handle_info:{189,5} Session liveness failure
2022-06-27 17:53:16.235 1 [warning]
<0.1642.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
11yJRnYb9fA5cjTW7U6LYJpgKZzmRX8JYzMWDHbwYd21sjB7u72": [{"/
ip4/81.206.72.48/tcp/44158",ehostunreach}]
2022-06-27 17:53:16.746 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:53:18.473 1 [notice]
<0.29822.0>@libp2p_multistream_client:negotiate_handler:{14,13} Client
handshake failed for "gossip/1.0.2": closed
2022-06-27 17:53:18.474 1 [warning]
<0.1644.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/
ip4/54.75.67.249/tcp/2154": closed
2022-06-27 17:53:19.292 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:53:20.095 1 [warning]
<0.1638.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
112fNS7gh5r2SAAVAERKS5ceCwSiQGJPqdcZFy3WPRpraY3ZSUd": [{"/
ip4/87.253.44.98/tcp/44158",ehostunreach}]
2022-06-27 17:53:21.811 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:53:23.856 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
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12291671073248440251 on 56833  
2022-06-27 17:53:24.265 1 [notice]  
<0.29363.0>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 17:53:24.323 1 [notice]  
<0.29830.0>@libp2p\_multistream\_client:negotiate\_handler:{14,13} Client  
handshake failed for "gossip/1.0.2": closed  
2022-06-27 17:53:24.324 1 [warning]  
<0.1645.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/54.207.252.240/tcp/443": closed  
2022-06-27 17:53:24.337 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 17:53:24.587 1 [warning]  
<0.1646.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/18.230.47.214/tcp/2154": {exit,{normal,{gen\_server,call,[<0.29363.0>,open]}}}  
2022-06-27 17:53:25.060 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.215.75.202":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 17:53:25.161 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,ehostunreach}},  
[{"miner\_poc\_grpc\_client\_statem",send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{"line",719}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{"line",467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{"line",221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{"line",1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{"line",226}]]]  
2022-06-27 17:53:25.161 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 17:53:25.162 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.29835.0>,ehostunreach}  
2022-06-27 17:53:25.162 1 [error] <0.29835.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.29835.0> with 0 neighbours exited with reason:  
ehostunreach in gen\_server:init\_it/6 line 407  
2022-06-27 17:53:26.863 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 17:53:29.409 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay

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{error,retry}
2022-06-27 17:53:31.941 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:53:34.016 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:53:34.480 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:53:35.165 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:53:35.255 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,ehostunreach}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 17:53:35.255 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:53:35.256 1 [error] <0.29836.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29836.0> with 0 neighbours exited with reason:
ehostunreach in gen_server:init_it/6 line 407
2022-06-27 17:53:35.256 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29836.0>,ehostunreach}
2022-06-27 17:53:36.421 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:53:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:53:36.422 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:53:36 GMT">>,<<"txnb">> => 0}
```

2022-06-27 17:53:36.423 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4476,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 17:53:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 17:53:37.000 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}

2022-06-27 17:53:38.685 1 [warning]  
<0.1644.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/ip4/54.233.127.36/tcp/443": ehostunreach

2022-06-27 17:53:39.527 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}

2022-06-27 17:53:42.050 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}

2022-06-27 17:53:44.162 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 17:53:44.402 1 [warning]  
<0.1645.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/ip4/18.236.38.58/tcp/443": ehostunreach

2022-06-27 17:53:44.596 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}

2022-06-27 17:53:44.672 1 [warning]  
<0.1646.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/ip4/3.34.112.22/tcp/2154": ehostunreach

2022-06-27 17:53:45.258 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.72.143.228": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 17:53:45.329 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,ehostunreach}}, [{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4}, {{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,719}}], {miner\_poc\_grpc\_client\_statem,find\_validator,0}, {{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}}], {miner\_poc\_grpc\_client\_statem,setup,3}, {{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}}],

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{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:53:45.329 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:53:45.330 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29840.0>,ehostunreach}
2022-06-27 17:53:45.330 1 [error]
<0.29840.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.29840.0> with 0 neighbours exited with reason: ehostunreach in
gen_server:init_it/6 line 407
2022-06-27 17:53:47.141 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:53:49.666 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:53:52.195 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:53:54.309 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:53:54.716 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:53:55.332 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:53:55.651 1 [info] <0.29842.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:53:55.652 1 [info] <0.29842.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.29841.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:53:55.963 1 [error]
```

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<0.29841.0>@http2_client:handle_settings:822 gen_server <0.29841.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:53:55.964 1 [error]
<0.29841.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29841.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:53:55.965 1 [error]
<0.29842.0>@Undefined:Undefined:Undefined gen_server <0.29842.0>
terminated with reason: connection_down
2022-06-27 17:53:55.965 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29842.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:53:55.965 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:53:55.965 1 [error]
<0.29842.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.29842.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 17:53:55.966 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:53:55.966 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 17:53:55.967 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29841.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4570>,socket_mon =>
#Ref<0.155928093.3973054468.195708>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29842.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:53:55.968 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29842.0>,connection_down}
2022-06-27 17:53:57.248 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:53:59.357 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112fn3yRCeK3f5es1JBe43RQFxp5M1TUHW3PzhPssG8ZA3QJGx2K" informed us
of our observed address "/ip4/80.77.186.186/tcp/11262"
2022-06-27 17:53:59.774 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:54:02.310 1 [warning]
```

<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 17:54:04.449 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 17:54:04.849 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 17:54:05.968 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "18.228.115.118":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 17:54:06.234 1 [info] <0.29883.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 17:54:06.236 1 [info] <0.29883.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"18.228.115.118">>,http\_connection => <0.29881.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 17:54:06.392 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/  
11wfLswMNLb2MFbnHw4BMna2YY7adP96rAs8wqYh5vM6zLVSaWM" informed us  
of our observed address "/ip4/80.77.186.186/tcp/19164"  
2022-06-27 17:54:06.425 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:54:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 17:54:06.426 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:54:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 17:54:06.427 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4480,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:54:06 GMT">>,<<"txnb">> =>

```
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:54:06.491 1 [error]
<0.29881.0>@http2_client:handle_settings:822 gen_server <0.29881.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:54:06.492 1 [error]
<0.29881.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29881.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:54:06.493 1 [error]
<0.29883.0>@Undefined:Undefined:Undefined gen_server <0.29883.0>
terminated with reason: connection_down
2022-06-27 17:54:06.493 1 [error]
<0.29883.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.29883.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 17:54:06.493 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29883.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:54:06.494 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:54:06.494 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```



2022-06-27 17:54:06.495 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 17:54:06.496 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29881.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {56, {<<":authority">>,<<"18.228.115.118">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "18.228.115.118",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4574>,socket\_mon => #Ref<0.155928093.3973054468.195939>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.29883.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 17:54:06.497 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29883.0>,connection\_down}

2022-06-27 17:54:06.988 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/112vGfa3Xb4zfmTEKNp2Ko3rM94Jvw8zEhSPHSq1qJ6hzTjFnpEr" informed us of our observed address "/ip4/80.77.186.186/tcp/61100"

2022-06-27 17:54:07.368 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}

2022-06-27 17:54:09.891 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay

```
{error,retry}
2022-06-27 17:54:12.421 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:54:14.609 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:54:14.941 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:54:16.498 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:54:16.564 1 [info] <0.29896.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:54:16.566 1 [info] <0.29896.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.29895.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:54:16.624 1 [error]
<0.29895.0>@http2_client:handle_settings:822 gen_server <0.29895.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:54:16.626 1 [error]
<0.29895.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29895.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:54:16.626 1 [error] <0.29896.0>@Undefined:Undefined:Undefined
gen_server <0.29896.0> terminated with reason: connection_down
2022-06-27 17:54:16.626 1 [error] <0.29896.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29896.0> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:54:16.627 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29896.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:54:16.627 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:54:16.627 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:54:16.627 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:54:16.629 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29895.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4575>,socket_mon =>
```

```
#Ref<0.155928093.3973316611.136103>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29896.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 17:54:16.629 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29896.0>,connection_down}
2022-06-27 17:54:17.461 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:54:19.980 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:54:22.500 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:54:24.759 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:54:25.023 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:54:26.630 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:54:26.950 1 [info] <0.29899.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:54:26.951 1 [info] <0.29899.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.29898.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 17:54:27.288 1 [error]
<0.29898.0>@http2_client:handle_settings:822 gen_server <0.29898.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:54:27.290 1 [error]
<0.29898.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29898.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:54:27.290 1 [error] <0.29899.0>@Undefined:Undefined:Undefined
gen_server <0.29899.0> terminated with reason: connection_down
2022-06-27 17:54:27.290 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29899.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:54:27.290 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:54:27.291 1 [error] <0.29899.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29899.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:54:27.292 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:54:27.293 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

validator failed: {error,req\_failed}  
2022-06-27 17:54:27.294 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.29898.0>,{function\_clause,  
[http2\_client,handle\_settings,  
[[,0,<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "3.24.161.210",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4576>,socket\_mon =>  
#Ref<0.155928093.3973316611.136140>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.29899.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 17:54:27.295 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.29899.0>,connection\_down}  
2022-06-27 17:54:27.547 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 17:54:30.069 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 17:54:32.590 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 17:54:34.900 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from

12291671073248440251 on 56833  
2022-06-27 17:54:35.134 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 17:54:36.419 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:54:36 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 17:54:36.420 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:54:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 17:54:36.421 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4484,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 17:54:36 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 17:54:37.296 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.131.232.233":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 17:54:37.443 1 [info] <0.29902.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 17:54:37.444 1 [info] <0.29902.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"3.131.232.233">>,http\_connection => <0.29901.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 17:54:37.579 1 [error]  
<0.29901.0>@http2\_client:handle\_settings:822 gen\_server <0.29901.0>  
terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 17:54:37.580 1 [error]  
<0.29901.0>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.29901.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 17:54:37.581 1 [error] <0.29902.0>@Undefined:Undefined:Undefined  
gen\_server <0.29902.0> terminated with reason: connection\_down  
2022-06-27 17:54:37.582 1 [error] <0.29902.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.29902.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 17:54:37.582 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.29902.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 17:54:37.582 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 17:54:37.582 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 17:54:37.583 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 17:54:37.585 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.29901.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>



```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4577>,socket_mon =>
#Ref<0.155928093.3973840897.247888>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29902.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:54:37.585 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29902.0>,connection_down}
2022-06-27 17:54:37.662 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:54:40.196 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:54:42.716 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:54:45.039 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:54:45.237 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:54:47.585 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 17:54:47.760 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:54:47.842 1 [info] <0.29905.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:54:47.842 1 [info] <0.29905.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.29904.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:54:48.096 1 [error]
<0.29904.0>@http2_client:handle_settings:822 gen_server <0.29904.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:54:48.098 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29905.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:54:48.099 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:54:48.099 1 [error]
<0.29904.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29904.0> with 0 neighbours crashed with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:54:48.100 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:54:48.100 1 [error] <0.29905.0>@Undefined:Undefined:Undefined
gen_server <0.29905.0> terminated with reason: connection_down
2022-06-27 17:54:48.100 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:54:48.101 1 [error] <0.29905.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29905.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:54:48.104 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29904.0>,{function_clause,
[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4578>,socket_mon =>
#Ref<0.155928093.3973316611.136202>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29905.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]}
```

2022-06-27 17:54:48.104 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.29905.0>,connection\_down}  
2022-06-27 17:54:50.280 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 17:54:52.801 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 17:54:55.195 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 17:54:55.353 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 17:54:57.903 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 17:54:58.103 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "54.251.77.229":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 17:54:58.327 1 [info] <0.29908.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 17:54:58.328 1 [info] <0.29908.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"54.251.77.229">>,http\_connection => <0.29907.0>,scheme =>  
<<"http">>,encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 17:54:58.544 1 [error]  
<0.29907.0>@http2\_client:handle\_settings:822 gen\_server <0.29907.0>  
terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 17:54:58.546 1 [error]  
<0.29907.0>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.29907.0> with 0 neighbours crashed with reason: no function clause matching

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:54:58.546 1 [error]
<0.29908.0>@Undefined:Undefined:Undefined gen_server <0.29908.0>
terminated with reason: connection_down
2022-06-27 17:54:58.547 1 [error] <0.29908.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29908.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:54:58.547 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29908.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:54:58.547 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:54:58.548 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:54:58.548 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:54:58.550 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29907.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4579>,socket_mon =>
#Ref<0.155928093.3973840897.248082>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29908.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 17:54:58.550 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29908.0>,connection_down}
2022-06-27 17:55:00.429 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:55:02.951 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:55:05.330 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:55:05.476 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:55:06.425 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:55:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:55:06.427 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 17:55:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:55:06.428 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4488,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:55:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:55:08.017 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:55:08.551 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:55:08.758 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 7,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAECj8hAADzsAP7IND8o0SZufF7KflnCOQYXEHNw3VtPO2FpuunfsNsm/
//99kMP5g==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
100,<<"freq">> => 867.9,<<"jver">> => 1,<<"lsnr">> => -24.5,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -110,<<"rssi">>
=> -134,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 3959722257}}] from
12291671073248440251 on 35152
2022-06-27 17:55:08.865 1 [info] <0.29918.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:55:08.866 1 [info] <0.29918.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.29917.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:55:09.180 1 [error] <0.29917.0>@http2_client:handle_settings:822
gen_server <0.29917.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:55:09.180 1 [error] <0.29917.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29917.0> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:55:09.181 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29918.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:55:09.181 1 [error] <0.29918.0>@Undefined:Undefined:Undefined
gen_server <0.29918.0> terminated with reason: connection_down
2022-06-27 17:55:09.181 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:55:09.182 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:55:09.182 1 [error] <0.29918.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29918.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:55:09.182 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:55:09.183 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29917.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
```



```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {56,
{<<":authority">>,<<"13.237.155.172">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}}], host => "13.237.155.172", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.4580>, socket_mon =>
#Ref<0.155928093.3973316610.259007>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.29918.0>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}], timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file,"http2_client.erl"}, {line,822}],
{http2_client, handle_packet, 2, [{file,"http2_client.erl"}, {line,648}]},
{gen_server, try_dispatch, 4, [{file,"gen_server.erl"}, {line,695}]},
{gen_server, handle_msg, 6, [{file,"gen_server.erl"}, {line,771}]},
{proc_lib, init_p_do_apply, 3, [{file,"proc_lib.erl"}, {line,226}]}}]
2022-06-27 17:55:09.183 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29918.0>,connection_down}
2022-06-27 17:55:10.550 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:55:13.072 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:55:15.476 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:55:15.609 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:55:18.133 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:55:19.185 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:55:19.252 1 [info] <0.29929.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:55:19.254 1 [info] <0.29929.0>@grpc_client_stream_custom:init:
```

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.29928.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:55:19.311 1 [error] <0.29928.0>@http2_client:handle_settings:822
gen_server <0.29928.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:55:19.312 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29929.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:55:19.312 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:55:19.312 1 [error] <0.29928.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29928.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:55:19.312 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:55:19.313 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 17:55:19.313 1 [error] <0.29929.0>@Undefined:Undefined:Undefined gen\_server <0.29929.0> terminated with reason: connection\_down

2022-06-27 17:55:19.313 1 [error] <0.29929.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.29929.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 17:55:19.314 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29928.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{54, {<<":authority">>,<<"3.122.38.248">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.122.38.248",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4581>,socket\_mon => #Ref<0.155928093.3973316610.259075>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.29929.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}]}

2022-06-27 17:55:19.314 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29929.0>,connection\_down}

2022-06-27 17:55:20.654 1 [warning]

<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}

2022-06-27 17:55:23.176 1 [warning]

<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay

```
{error,retry}
2022-06-27 17:55:24.363 1 [info] <0.1662.0>@blockchain_worker:start_sync:
{888,13} new block sync starting with Pid: <0.29932.0>, Ref:
#Ref<0.155928093.3973840897.248641>, Peer: "/p2p/
11W2912g7NYy3ykZogXkGVi4vyv52zLGqFdMHwN6MLoBaVTohAe"
2022-06-27 17:55:25.619 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:55:25.705 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:55:28.227 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:55:29.315 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:55:29.576 1 [info] <0.29934.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:55:29.577 1 [info] <0.29934.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.29933.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:55:29.829 1 [error]
<0.29933.0>@http2_client:handle_settings:822 gen_server <0.29933.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:55:29.830 1 [error]
<0.29933.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29933.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 17:55:29.831 1 [error] <0.29934.0>@Undefined:Undefined:Undefined
gen_server <0.29934.0> terminated with reason: connection_down
2022-06-27 17:55:29.831 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29934.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:55:29.831 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:55:29.832 1 [error] <0.29934.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29934.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:55:29.832 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:55:29.832 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:55:29.833 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29933.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.207.131.103",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4587>,socket_mon =>
#Ref<0.155928093.3973316610.259147>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29934.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 17:55:29.834 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29934.0>,connection_down}
2022-06-27 17:55:30.748 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 17:55:33.262 1 [info] <0.1657.0>@libp2p_relay_server:init_relay:
{242,13} initiating relay with peer "/p2p/
11JuczTguB75zuCLCN3wadBfHPiwhpBeSFAN4gjmrPeXe4YF3mJ"
2022-06-27 17:55:34.747 1 [info] <0.1657.0>@libp2p_relay_server:handle_info:
{162,13} relay started successfully with "/p2p/
11JuczTguB75zuCLCN3wadBfHPiwhpBeSFAN4gjmrPeXe4YF3mJ"
2022-06-27 17:55:34.875 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11JuczTguB75zuCLCN3wadBfHPiwhpBeSFAN4gjmrPeXe4YF3mJ" informed us of
our observed address "/ip4/80.77.186.186/tcp/4787"
2022-06-27 17:55:34.918 1 [info] <0.1657.0>@libp2p_relay_server:handle_call:
{111,5} inserting new listener blockchain_swarm, "/p2p/
11JuczTguB75zuCLCN3wadBfHPiwhpBeSFAN4gjmrPeXe4YF3mJ/p2p-circuit/p2p/
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNvidMW72SydYmoiT2VXv", <0.29946.0>
2022-06-27 17:55:35.772 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:55:36.426 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:55:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

```
2022-06-27 17:55:36.427 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:55:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:55:36.428 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4492,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:55:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:55:39.835 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:55:40.055 1 [info] <0.29953.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:55:40.057 1 [info] <0.29953.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.29952.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:55:40.269 1 [error]
<0.29952.0>@http2_client:handle_settings:822 gen_server <0.29952.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:55:40.270 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29953.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:55:40.270 1 [error]
<0.29952.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29952.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:55:40.270 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:55:40.271 1 [error] <0.29953.0>@Undefined:Undefined:Undefined
gen_server <0.29953.0> terminated with reason: connection_down
2022-06-27 17:55:40.271 1 [error] <0.29953.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29953.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:55:40.272 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:55:40.272 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:55:40.273 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29952.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```



```
16384},server_window => 65528,socket => #Port<0.4593>,socket_mon =>
#Ref<0.155928093.3973316610.259202>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29953.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 17:55:40.274 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29953.0>,connection_down}
2022-06-27 17:55:45.929 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:55:50.275 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:55:50.551 1 [info] <0.29956.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:55:50.552 1 [info] <0.29956.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.29955.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:55:50.809 1 [error]
<0.29955.0>@http2_client:handle_settings:822 gen_server <0.29955.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:55:50.810 1 [error]
<0.29955.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29955.0> with 0 neighbours crashed with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:55:50.810 1 [error] <0.29956.0>@Undefined:Undefined:Undefined
gen_server <0.29956.0> terminated with reason: connection_down
2022-06-27 17:55:50.810 1 [error] <0.29956.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29956.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:55:50.811 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29956.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:55:50.811 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:55:50.812 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:55:50.812 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:55:50.813 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29955.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4594>,socket_mon =>
#Ref<0.155928093.3973316610.259252>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29956.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 17:55:50.814 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29956.0>,connection_down}
2022-06-27 17:55:56.076 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:56:00.814 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:56:00.891 1 [info] <0.29959.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:56:00.894 1 [info] <0.29959.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.29958.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:56:00.965 1 [error]
<0.29958.0>@http2_client:handle_settings:822 gen_server <0.29958.0>
terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:56:00.966 1 [error]
<0.29958.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29958.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:56:00.967 1 [error] <0.29959.0>@Undefined:Undefined:Undefined
gen_server <0.29959.0> terminated with reason: connection_down
2022-06-27 17:56:00.968 1 [error]
<0.29959.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.29959.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 17:56:00.968 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29959.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:56:00.968 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:56:00.969 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:56:00.969 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:56:00.971 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.29958.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4595>,socket_mon =>
#Ref<0.155928093.3973316611.136344>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29959.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 17:56:00.971 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29959.0>,connection_down}
2022-06-27 17:56:06.230 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:56:06.428 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:56:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:56:06.428 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:56:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:56:06.430 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
```

```
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4496,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:56:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:56:10.972 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:56:11.064 1 [info] <0.29967.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:56:11.065 1 [info] <0.29967.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.29966.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:56:11.151 1 [error] <0.29966.0>@http2_client:handle_settings:822
gen_server <0.29966.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:56:11.152 1 [error] <0.29966.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.29966.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:56:11.152 1 [error] <0.29967.0>@Undefined:Undefined:Undefined
gen_server <0.29967.0> terminated with reason: connection_down
2022-06-27 17:56:11.152 1 [error] <0.29967.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29967.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:56:11.153 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29967.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 17:56:11.153 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:56:11.154 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:56:11.154 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:56:11.156 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29966.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4596>,socket_mon =>
#Ref<0.155928093.3973316611.136390>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29967.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 17:56:11.156 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29967.0>,connection_down}
2022-06-27 17:56:16.376 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:56:21.156 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:56:21.421 1 [info] <0.29980.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:56:21.423 1 [info] <0.29980.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.29979.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:56:21.684 1 [error]
<0.29979.0>@http2_client:handle_settings:822 gen_server <0.29979.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:56:21.685 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29980.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```



```
{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 17:56:21.686 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:56:21.686 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:56:21.687 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:56:21.690 1 [error]
<0.29979.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29979.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:56:21.690 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29979.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4597>,socket_mon =>
#Ref<0.155928093.3973316611.136422>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29980.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 17:56:21.690 1 [error] <0.29980.0>@Undefined:Undefined:Undefined
gen_server <0.29980.0> terminated with reason: connection_down
2022-06-27 17:56:21.690 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29980.0>,connection_down}
2022-06-27 17:56:21.692 1 [error] <0.29980.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29980.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:56:26.522 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:56:31.690 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:56:31.844 1 [info] <0.29983.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:56:31.846 1 [info] <0.29983.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.29982.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:56:31.985 1 [error]
<0.29982.0>@http2_client:handle_settings:822 gen_server <0.29982.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:56:31.987 1 [error]
<0.29982.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29982.0> with 0 neighbours crashed with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:56:31.987 1 [error] <0.29983.0>@Undefined:Undefined:Undefined
gen_server <0.29983.0> terminated with reason: connection_down
2022-06-27 17:56:31.988 1 [error] <0.29983.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29983.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:56:31.988 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29983.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:56:31.989 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:56:31.989 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:56:31.989 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:56:31.990 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29982.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>, <<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>, <<"application/grpc+proto">>}}, {55,
{<<":authority">>, <<"3.131.232.233">>}}, {63, {<<":path">>, <<"/helium.gateway/
validators">>}}}], host => "3.131.232.233", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.4598>, socket_mon =>
#Ref<0.155928093.3973316611.136439>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.29983.0>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file, "http2_client.erl"}, {line, 822}],
{http2_client, handle_packet, 2, [{file, "http2_client.erl"}, {line, 648}]},
{gen_server, try_dispatch, 4, [{file, "gen_server.erl"}, {line, 695}]},
{gen_server, handle_msg, 6, [{file, "gen_server.erl"}, {line, 771}]},
{proc_lib, init_p_do_apply, 3, [{file, "proc_lib.erl"}, {line, 226}]]}]
2022-06-27 17:56:31.991 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT', <0.29983.0>, connection_down}
2022-06-27 17:56:36.429 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0, <<"dwnb">> => 0, <<"rxfw">> =>
0, <<"rxnb">> => 0, <<"rxok">> => 0, <<"temp">> => 0.0, <<"time">> =>
<<"2022-06-27 17:56:36 GMT">>, <<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:56:36.430 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0, <<"dwnb">> => 0, <<"rxfw">> =>
0, <<"rxnb">> => 0, <<"rxok">> => 0, <<"temp">> => 0.0, <<"time">> =>
<<"2022-06-27 17:56:36 GMT">>, <<"txnb">> => 0}
2022-06-27 17:56:36.433 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251, ip={172,17,0,1}, port=56833, sent=0, receiv
ed=4499, dropped=0, status=#{<<"ackr">> => 0.0, <<"dwnb">> => 0, <<"rxfw">>
=> 0, <<"rxnb">> => 0, <<"rxok">> => 0, <<"temp">> => 0.0, <<"time">> =>
<<"2022-06-27 17:56:36 GMT">>, <<"txnb">> =>
0}, rtt_samples=[], rtt=5000000}
2022-06-27 17:56:36.679 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:56:41.991 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

```
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:56:42.139 1 [info] <0.29986.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:56:42.142 1 [info] <0.29986.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.29985.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:56:42.279 1 [error]
<0.29985.0>@http2_client:handle_settings:822 gen_server <0.29985.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:56:42.279 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29986.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:56:42.280 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:56:42.280 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:56:42.280 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:56:42.280 1 [error]
<0.29985.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29985.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:56:42.280 1 [error]
<0.29986.0>@Undefined:Undefined:Undefined gen_server <0.29986.0>
terminated with reason: connection_down
2022-06-27 17:56:42.281 1 [error] <0.29986.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29986.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:56:42.282 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29985.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4599>,socket_mon =>
#Ref<0.155928093.3973316611.136457>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29986.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}
```

```
2022-06-27 17:56:42.282 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29986.0>,connection_down}
2022-06-27 17:56:46.826 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:56:52.283 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:56:52.440 1 [info] <0.29989.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:56:52.441 1 [info] <0.29989.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.29988.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:56:52.584 1 [error]
<0.29988.0>@http2_client:handle_settings:822 gen_server <0.29988.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:56:52.584 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29989.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

2022-06-27 17:56:52.585 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 17:56:52.585 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 17:56:52.585 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 17:56:52.586 1 [error]  
<0.29988.0>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.29988.0> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 17:56:52.586 1 [error]  
<0.29989.0>@Undefined:Undefined:Undefined gen\_server <0.29989.0> terminated with reason: connection\_down

2022-06-27 17:56:52.587 1 [error] <0.29989.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.29989.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 17:56:52.587 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29988.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.132.190.192",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4600>,socket\_mon => #Ref<0.155928093.3973316611.136474>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.29989.0>,server\_window => 65528,state =>



```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 17:56:52.587 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29989.0>,connection_down}
2022-06-27 17:56:56.975 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:57:02.588 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:57:02.738 1 [info] <0.29992.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:57:02.739 1 [info] <0.29992.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.29991.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:57:02.878 1 [error]
<0.29991.0>@http2_client:handle_settings:822 gen_server <0.29991.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:57:02.879 1 [error]
<0.29991.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.29991.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 17:57:02.880 1 [error] <0.29992.0>@Undefined:Undefined:Undefined
gen_server <0.29992.0> terminated with reason: connection_down
2022-06-27 17:57:02.881 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.29992.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:57:02.881 1 [error] <0.29992.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.29992.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:57:02.881 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:57:02.881 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:57:02.882 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:57:02.883 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29991.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4601>,socket_mon =>
#Ref<0.155928093.3973316611.136492>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.29992.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 17:57:02.883 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.29992.0>,connection_down}
2022-06-27 17:57:06.428 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:57:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:57:06.429 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:57:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:57:06.431 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4503,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:57:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 17:57:07.129 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:57:12.884 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:57:17.266 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 17:57:21.654 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for peerbook <0.1643.0>  
2022-06-27 17:57:27.405 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 17:57:36.430 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 17:57:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 17:57:36.430 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 17:57:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 17:57:36.432 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4507,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 17:57:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 17:57:37.562 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 17:57:42.889 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[{"miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,719}]}],  
{"miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}],  
{"miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}],  
{"gen\_statem,loop\_state\_callback,11,[{"file,"gen\_statem.erl"},{line,1203}]}],  
{"proc\_lib,init\_p\_do\_apply,3,[{"file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 17:57:42.889 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 17:57:42.890 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.29995.0>,timeout}  
2022-06-27 17:57:42.891 1 [error] <0.29995.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.29995.0> with 0 neighbours exited with reason:

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timeout in gen_server:init_it/6 line 407
2022-06-27 17:57:47.709 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:57:52.892 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:57:53.109 1 [info] <0.30013.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:57:53.111 1 [info] <0.30013.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.30012.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:57:53.322 1 [error]
<0.30012.0>@http2_client:handle_settings:822 gen_server <0.30012.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:57:53.323 1 [error]
<0.30012.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30012.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:57:53.324 1 [error] <0.30013.0>@Undefined:Undefined:Undefined
gen_server <0.30013.0> terminated with reason: connection_down
2022-06-27 17:57:53.325 1 [error] <0.30013.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30013.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:57:53.326 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30013.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

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[[file,"grpc_client_stream_custom.erl"],{line,418}]],{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 17:57:53.327 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:57:53.327 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:57:53.328 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:57:53.331 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30012.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4603>,socket_mon =>
#Ref<0.155928093.3973316611.136572>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30013.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 17:57:53.332 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30013.0>,connection_down}
2022-06-27 17:57:57.839 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:58:03.331 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:58:06.434 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:58:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:58:06.434 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:58:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:58:06.436 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4511,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:58:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:58:07.979 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:58:18.126 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:58:28.266 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:58:33.335 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
```

```
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 17:58:33.335 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:58:33.336 1 [error] <0.30015.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30015.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 17:58:33.336 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30015.0>,timeout}
2022-06-27 17:58:36.440 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:58:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:58:36.441 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:58:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:58:36.443 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4515,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:58:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:58:38.416 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:58:43.337 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:58:43.418 1 [info] <0.30032.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:58:43.419 1 [info] <0.30032.0>@grpc_client_stream_custom:init:
```



```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.30031.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:58:43.490 1 [error]
<0.30031.0>@http2_client:handle_settings:822 gen_server <0.30031.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:58:43.491 1 [error]
<0.30031.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30031.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:58:43.492 1 [error]
<0.30032.0>@Undefined:Undefined:Undefined gen_server <0.30032.0>
terminated with reason: connection_down
2022-06-27 17:58:43.492 1 [error]
<0.30032.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.30032.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 17:58:43.493 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30032.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 17:58:43.493 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:58:43.495 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:58:43.495 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:58:43.497 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30031.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4605>,socket_mon =>
#Ref<0.155928093.3973840897.252980>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30032.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 17:58:43.497 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30032.0>,connection_down}
2022-06-27 17:58:48.556 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:58:53.498 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:58:53.813 1 [info] <0.30035.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:58:53.815 1 [info] <0.30035.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.30034.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:58:54.128 1 [error]
<0.30034.0>@http2_client:handle_settings:822 gen_server <0.30034.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:58:54.130 1 [error]
<0.30034.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30034.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 17:58:54.132 1 [error] <0.30035.0>@Undefined:Undefined:Undefined
gen_server <0.30035.0> terminated with reason: connection_down
2022-06-27 17:58:54.133 1 [error] <0.30035.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30035.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:58:54.134 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30035.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:58:54.135 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:58:54.136 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:58:54.136 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:58:54.139 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30034.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4606>,socket_mon =>
#Ref<0.155928093.3973840897.253197>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30035.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 17:58:54.139 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30035.0>,connection_down}
2022-06-27 17:58:58.696 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:59:04.139 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:59:04.220 1 [info] <0.30038.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:59:04.222 1 [info] <0.30038.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.30037.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:59:04.294 1 [error]
<0.30037.0>@http2_client:handle_settings:822 gen_server <0.30037.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:59:04.298 1 [error]
<0.30037.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30037.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:59:04.298 1 [error]
<0.30038.0>@Undefined:Undefined:Undefined gen_server <0.30038.0>
terminated with reason: connection_down
2022-06-27 17:59:04.299 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.30038.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 17:59:04.299 1 [error]
<0.30038.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.30038.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 17:59:04.300 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:59:04.300 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:59:04.300 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:59:04.304 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30037.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},server_window => 65528,socket => #Port<0.4607>,socket_mon =>
#Ref<0.155928093.3973840897.253407>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30038.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 17:59:04.305 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30038.0>,connection_down}
2022-06-27 17:59:06.433 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:59:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:59:06.434 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:59:06 GMT">>,<<"txnb">> => 0}
2022-06-27 17:59:06.435 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4519,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:59:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:59:08.839 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:59:12.572 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11wARf5JiG3b6qZGnbt5RKuVgG89QkVBWN2SqViMABzWVL2A32" informed us
of our observed address "/ip4/80.77.186.186/tcp/52957"
2022-06-27 17:59:14.302 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:59:14.378 1 [info] <0.30057.0>@grpc_client_stream_custom:init:
```

```
{131,9} init stream for RPC validators and type unary
2022-06-27 17:59:14.380 1 [info] <0.30057.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.30056.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:59:14.443 1 [error]
<0.30056.0>@http2_client:handle_settings:822 gen_server <0.30056.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:59:14.444 1 [error]
<0.30056.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30056.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:59:14.445 1 [error] <0.30057.0>@Undefined:Undefined:Undefined
gen_server <0.30057.0> terminated with reason: connection_down
2022-06-27 17:59:14.445 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30057.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:59:14.445 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```



```
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:59:14.445 1 [error] <0.30057.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30057.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:59:14.445 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:59:14.446 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:59:14.447 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30056.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4613>,socket_mon =>
#Ref<0.155928093.3973840897.253791>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30057.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 17:59:14.447 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30057.0>,connection_down}
2022-06-27 17:59:18.985 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:59:24.448 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:59:24.701 1 [info] <0.30062.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 17:59:24.703 1 [info] <0.30062.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.30061.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 17:59:24.950 1 [error]
<0.30061.0>@http2_client:handle_settings:822 gen_server <0.30061.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:59:24.954 1 [error]
<0.30061.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30061.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 17:59:24.954 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30062.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 17:59:24.955 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 17:59:24.955 1 [error] <0.30062.0>@Undefined:Undefined:Undefined
gen_server <0.30062.0> terminated with reason: connection_down
2022-06-27 17:59:24.957 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 17:59:24.957 1 [error] <0.30062.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30062.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 17:59:24.957 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 17:59:24.960 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30061.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4614>,socket_mon =>
#Ref<0.155928093.3973840897.254027>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30062.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 17:59:24.961 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30062.0>,connection_down}
2022-06-27 17:59:29.130 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:59:34.960 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 17:59:36.433 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:59:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 17:59:36.433 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:59:36 GMT">>,<<"txnb">> => 0}
2022-06-27 17:59:36.435 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4523,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 17:59:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 17:59:39.272 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:59:46.387 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112hCknEyUz4EmCbSvxikm18zHxEcVPJt9U7L8ouxz9353d6hnUw" informed us of
our observed address "/ip4/80.77.186.186/tcp/18013"
2022-06-27 17:59:49.422 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 17:59:59.570 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:00:01.234 1 [notice]
```

<0.29845.0>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 18:00:04.965 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}]],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}]],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}]],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}]],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}]]}  
2022-06-27 18:00:04.965 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:00:04.966 1 [error] <0.30074.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.30074.0> with 0 neighbours exited with reason:  
timeout in gen\_server:init\_it/6 line 407  
2022-06-27 18:00:04.966 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30074.0>,timeout}  
2022-06-27 18:00:06.430 1 [warning]  
<0.1644.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/52.209.101.132/tcp/443": ehostunreach  
2022-06-27 18:00:06.436 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:00:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 18:00:06.436 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #{<<"ackr">>  
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>  
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:00:06  
GMT">>,<<"txnb">> => 0}  
2022-06-27 18:00:06.437 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4527,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:00:06 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 18:00:09.702 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from

12291671073248440251 on 56833  
2022-06-27 18:00:09.744 1 [notice]  
<0.29871.0>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 18:00:09.964 1 [info] <0.1657.0>@libp2p\_relay\_server:handle\_info:  
{172,5} Relay session with address "/p2p/  
11JuzcTguB75zuCLCN3wadBfHPiwhpBeSFAN4gjmrPeXe4YF3mJ/p2p-circuit/p2p/  
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv" closed with  
reason normal  
2022-06-27 18:00:10.732 1 [notice]  
<0.29862.0>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 18:00:12.491 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 18:00:14.967 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "18.230.8.198":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:00:15.043 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 18:00:15.050 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,ehostunreach}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}]],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}]],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}]],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}]],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}]]  
2022-06-27 18:00:15.050 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:00:15.051 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30105.0>,ehostunreach}  
2022-06-27 18:00:15.051 1 [error] <0.30105.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.30105.0> with 0 neighbours exited with reason:  
ehostunreach in gen\_server:init\_it/6 line 407  
2022-06-27 18:00:15.101 1 [warning]  
<0.1646.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "  
ip4/35.161.73.86/tcp/443": ehostunreach  
2022-06-27 18:00:16.081 1 [warning]

<0.1645.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/ip4/35.162.25.187/tcp/2154": ehostunreach  
2022-06-27 18:00:17.481 1 [notice]

<0.30041.0>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 18:00:17.557 1 [notice]

<0.30108.0>@libp2p\_multistream\_client:negotiate\_handler:{14,13} Client handshake failed for "gossip/1.0.2": closed  
2022-06-27 18:00:17.559 1 [warning]

<0.1640.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/11wARf5JiG3b6qZGnbt5RKuVgG89QkVBWN2SqiViMABzWVL2A32": closed  
2022-06-27 18:00:17.581 1 [warning]

<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}  
2022-06-27 18:00:19.849 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 18:00:20.114 1 [warning]

<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}  
2022-06-27 18:00:22.636 1 [warning]

<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}  
2022-06-27 18:00:25.052 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.30.111.82":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:00:25.156 1 [warning]

<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}  
2022-06-27 18:00:26.564 1 [warning]

<0.1638.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/112hCknEyUz4EmCbSvxikm18zHxEcVPJt9U7L8ouxz9353d6hnUw": [{"/ip4/94.55.248.26/tcp/44158",ehostunreach}]  
2022-06-27 18:00:26.634 1 [warning]

<0.1644.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/ip4/54.194.212.21/tcp/2154": ehostunreach  
2022-06-27 18:00:27.676 1 [warning]

<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}  
2022-06-27 18:00:28.334 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,ehostunreach}},  
[{"miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"}, {"line,719}]]],

```
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 18:00:28.334 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:00:28.334 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30113.0>,ehostunreach}
2022-06-27 18:00:28.335 1 [error] <0.30113.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30113.0> with 0 neighbours exited with reason:
ehostunreach in gen_server:init_it/6 line 407
2022-06-27 18:00:29.992 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:00:30.201 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 18:00:32.721 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 18:00:35.199 1 [warning]
<0.1646.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/
ip4/52.209.101.132/tcp/443": ehostunreach
2022-06-27 18:00:35.243 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 18:00:36.180 1 [warning]
<0.1645.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/
ip4/13.215.43.115/tcp/2154": ehostunreach
2022-06-27 18:00:36.437 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:00:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:00:36.438 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:00:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:00:36.439 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
```



```
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4531,dropped=0,status=#{"ackr">=> 0.0,<"dwnb">=> 0,<"rxfw">=>
=> 0,<"rxnb">=> 0,<"rxok">=> 0,<"temp">=> 0.0,<"time">=>
<"2022-06-27 18:00:36 GMT">,<"txnb">=>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:00:37.772 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 18:00:38.337 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:00:39.056 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,ehostunreach}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 18:00:39.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:00:39.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30118.0>,ehostunreach}
2022-06-27 18:00:39.058 1 [error] <0.30118.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30118.0> with 0 neighbours exited with reason:
ehostunreach in gen_server:init_it/6 line 407
2022-06-27 18:00:40.145 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:00:40.300 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 18:00:42.834 1 [info] <0.1657.0>@libp2p_relay_server:init_relay:
{242,13} initiating relay with peer "/p2p/
112fNS7gh5r2SAAVAERKS5ceCwSiQGJPqdcZFy3WPRpraY3ZSUd"
2022-06-27 18:00:42.960 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{165,13} could not initiate relay with
```

```
"/p2p/112fNS7gh5r2SAAVAERKS5ceCwSiQGJPqdcZFy3WPRpraY3ZSUd" [{"/
ip4/87.253.44.98/tcp/44158",ehostunreach}]
2022-06-27 18:00:45.482 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 18:00:46.734 1 [warning]
<0.1644.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/"
ip4/54.232.143.110/tcp/443": ehostunreach
2022-06-27 18:00:48.001 1 [info] <0.1657.0>@libp2p_relay_server:init_relay:
{242,13} initiating relay with peer "/p2p/
112cQJzCH2MVZxVU3HuwNaRsNT5ZJ5fPnignAknBMknnuxvaBKXq"
2022-06-27 18:00:48.115 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{165,13} could not initiate relay with
"/p2p/112cQJzCH2MVZxVU3HuwNaRsNT5ZJ5fPnignAknBMknnuxvaBKXq" [{"/
ip4/98.60.18.179/tcp/44158",ehostunreach}]
2022-06-27 18:00:49.059 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:00:49.374 1 [info] <0.30121.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:00:49.376 1 [info] <0.30121.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.30120.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:00:49.683 1 [error]
<0.30120.0>@http2_client:handle_settings:822 gen_server <0.30120.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:00:49.684 1 [error]
<0.30120.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30120.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 18:00:49.685 1 [error] <0.30121.0>@Undefined:Undefined:Undefined
gen_server <0.30121.0> terminated with reason: connection_down
2022-06-27 18:00:49.685 1 [error] <0.30121.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30121.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:00:49.686 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30121.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:00:49.686 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:00:49.687 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:00:49.687 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:00:49.689 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30120.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4657>,socket_mon =>
#Ref<0.155928093.3973316610.260536>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30121.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 18:00:49.690 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30121.0>,connection_down}
2022-06-27 18:00:50.292 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:00:50.642 1 [info] <0.1657.0>@libp2p_relay_server:init_relay:
{242,13} initiating relay with peer "/p2p/
112AWGsXhaneQqj3UhTPqgFYzM7EjHmMPF4BaPHVqt2vTwpKH5n5"
2022-06-27 18:00:51.806 1 [info] <0.1657.0>@libp2p_relay_server:handle_info:
{162,13} relay started successfully with "/p2p/
112AWGsXhaneQqj3UhTPqgFYzM7EjHmMPF4BaPHVqt2vTwpKH5n5" 2022-06-27
18:00:51.957 1 [info] <0.1631.0>@libp2p_transport_tcp:record_observed_addr:
{1060,21} peer "/p2p/
112AWGsXhaneQqj3UhTPqgFYzM7EjHmMPF4BaPHVqt2vTwpKH5n5" informed us
of our observed address "/ip4/80.77.186.186/tcp/63478"
2022-06-27 18:00:52.443 1 [info] <0.1657.0>@libp2p_relay_server:handle_call:
{111,5} inserting new listener blockchain_swarm, "/p2p/
112AWGsXhaneQqj3UhTPqgFYzM7EjHmMPF4BaPHVqt2vTwpKH5n5/p2p-circuit/
p2p/11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv",
<0.30133.0>
2022-06-27 18:00:56.526 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112S7jBfY9PcNy5h1kdCM4SYH2dZd1fCUkef8rWCFqgdhjVdd4c6" informed us of
our observed address "/ip4/80.77.186.186/tcp/49295"
2022-06-27 18:00:58.518 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11Jum2ig6Lpy1vpqEeSMj9Vs8h2siaooV56dYusHkgjTqbUQVF8" informed us of our
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observed address "/ip4/80.77.186.186/tcp/21453"
2022-06-27 18:00:59.690 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:00:59.764 1 [info] <0.30172.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:00:59.765 1 [info] <0.30172.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.30171.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:00:59.839 1 [error]
<0.30171.0>@http2_client:handle_settings:822 gen_server <0.30171.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:00:59.842 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30172.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:00:59.843 1 [error]
<0.30171.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30171.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 18:00:59.843 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:00:59.843 1 [error] <0.30172.0>@Undefined:Undefined:Undefined
gen_server <0.30172.0> terminated with reason: connection_down
2022-06-27 18:00:59.843 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:00:59.844 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:00:59.845 1 [error] <0.30172.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30172.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:00:59.847 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30171.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4665>,socket_mon =>
#Ref<0.155928093.3973840897.257169>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30172.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]]}
2022-06-27 18:00:59.848 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30172.0>,connection_down}
2022-06-27 18:01:00.432 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:01:06.440 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:01:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:01:06.441 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:01:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:01:06.443 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4535,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:01:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:01:08.899 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112maGyFfvB4FX1ipchmZSnU9E8gFWWDHh6tVD3ZidENnmbXmvrt" informed us
of our observed address "/ip4/80.77.186.186/tcp/16506"
2022-06-27 18:01:09.847 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:01:09.995 1 [info] <0.30191.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:01:09.997 1 [info] <0.30191.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.30190.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 18:01:10.142 1 [error] <0.30190.0>@http2_client:handle_settings:822
gen_server <0.30190.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:01:10.146 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30191.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:01:10.146 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:01:10.146 1 [error] <0.30190.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30190.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:01:10.147 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:01:10.147 1 [error] <0.30191.0>@Undefined:Undefined:Undefined
gen_server <0.30191.0> terminated with reason: connection_down
2022-06-27 18:01:10.148 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:01:10.149 1 [error] <0.30191.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30191.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:01:10.151 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```



```
in setup state: Type: info, Msg: {'EXIT',<0.30190.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4667>,socket_mon =>
#Ref<0.155928093.3973840897.257493>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30191.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:01:10.151 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30191.0>,connection_down}
2022-06-27 18:01:10.569 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:01:20.151 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:01:20.300 1 [info] <0.30194.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:01:20.302 1 [info] <0.30194.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.30193.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:01:20.444 1 [error]
<0.30193.0>@http2_client:handle_settings:822 gen_server <0.30193.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:01:20.445 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30194.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:01:20.445 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:01:20.445 1 [error]
<0.30193.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30193.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:01:20.446 1 [error] <0.30194.0>@Undefined:Undefined:Undefined
gen_server <0.30194.0> terminated with reason: connection_down
2022-06-27 18:01:20.446 1 [error] <0.30194.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30194.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:01:20.446 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 18:01:20.447 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 18:01:20.449 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30193.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{54, {<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.137.92.200",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4668>,socket\_mon => #Ref<0.155928093.3973840897.257670>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.30194.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 18:01:20.449 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30194.0>,connection\_down}  
2022-06-27 18:01:20.712 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 18:01:23.666 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/112R2HYvGELfZyZdQV1QGRXD87hR6tSuqtQfKQ8SaHn48FpCp9Sy" informed us of our observed address "/ip4/80.77.186.186/tcp/6566"

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2022-06-27 18:01:30.449 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:01:30.716 1 [info] <0.30214.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:01:30.717 1 [info] <0.30214.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.30213.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:01:30.852 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:01:30.971 1 [error] <0.30213.0>@http2_client:handle_settings:822
gen_server <0.30213.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:01:30.973 1 [error] <0.30213.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30213.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:01:30.974 1 [error] <0.30214.0>@Undefined:Undefined:Undefined
gen_server <0.30214.0> terminated with reason: connection_down
2022-06-27 18:01:30.974 1 [error] <0.30214.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30214.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:01:30.975 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30214.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:01:30.975 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:01:30.975 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:01:30.975 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:01:30.977 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30213.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.39.165.144">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4674>,socket_mon =>
#Ref<0.155928093.3973840897.257982>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30214.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
```

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{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 18:01:30.977 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30214.0>,connection_down}
2022-06-27 18:01:36.445 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:01:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:01:36.445 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:01:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:01:36.446 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4539,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:01:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:01:40.977 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:01:40.989 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:01:41.188 1 [info] <0.30217.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:01:41.190 1 [info] <0.30217.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.30216.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:01:41.393 1 [error] <0.30216.0>@http2_client:handle_settings:822
gen_server <0.30216.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 18:01:41.394 1 [error] <0.30216.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30216.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 18:01:41.395 1 [error] <0.30217.0>@Undefined:Undefined:Undefined
gen_server <0.30217.0> terminated with reason: connection_down
2022-06-27 18:01:41.395 1 [error] <0.30217.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30217.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:01:41.395 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30217.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:01:41.396 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:01:41.396 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:01:41.396 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:01:41.398 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30216.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

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4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"44.229.159.157">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4675>,socket_mon =>
#Ref<0.155928093.3973840897.258167>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30217.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 18:01:41.399 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30217.0>,connection_down}
2022-06-27 18:01:51.135 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:01:51.398 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:02:01.279 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:02:06.443 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:02:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:02:06.443 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
```



0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:02:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 18:02:06.444 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4543,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:02:06 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 18:02:11.426 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:02:21.402 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,timeout}},  
[{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,719}]}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}],  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 18:02:21.403 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:02:21.404 1 [error] <0.30219.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.30219.0> with 0 neighbours exited with reason:  
timeout in gen\_server:init\_it/6 line 407  
2022-06-27 18:02:21.404 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30219.0>,timeout}  
2022-06-27 18:02:21.589 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:02:21.655 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for  
peerbook <0.1642.0>  
2022-06-27 18:02:31.406 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.209.94.225":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:02:31.662 1 [info] <0.30242.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary

```
2022-06-27 18:02:31.664 1 [info] <0.30242.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.30241.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:02:31.732 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:02:31.915 1 [error] <0.30241.0>@http2_client:handle_settings:822
gen_server <0.30241.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:02:31.916 1 [error] <0.30241.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30241.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:02:31.916 1 [error] <0.30242.0>@Undefined:Undefined:Undefined
gen_server <0.30242.0> terminated with reason: connection_down
2022-06-27 18:02:31.916 1 [error] <0.30242.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30242.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:02:31.917 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30242.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 18:02:31.917 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:02:31.918 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:02:31.918 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:02:31.920 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30241.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4677>,socket_mon =>
#Ref<0.155928093.3973840897.259348>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30242.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:02:31.921 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30242.0>,connection_down}
2022-06-27 18:02:36.448 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:02:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:02:36.449 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:02:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:02:36.450 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4547,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:02:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:02:41.880 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:02:41.921 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:02:42.185 1 [info] <0.30246.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:02:42.187 1 [info] <0.30246.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.30244.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:02:42.442 1 [error]
<0.30244.0>@http2_client:handle_settings:822 gen_server <0.30244.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:02:42.443 1 [error]
<0.30244.0>@http2_client:handle_settings:822 CRASH REPORT Process
```

```
<0.30244.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:02:42.444 1 [error]
<0.30246.0>@Undefined:Undefined:Undefined gen_server <0.30246.0>
terminated with reason: connection_down
2022-06-27 18:02:42.444 1 [error]
<0.30246.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.30246.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:02:42.444 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30246.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:02:42.445 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:02:42.445 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:02:42.445 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:02:42.447 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30244.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4678>,socket_mon =>
#Ref<0.155928093.3973840897.259585>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30246.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:02:42.447 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30246.0>,connection_down}
2022-06-27 18:02:43.119 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11M5DjgzzLrUmVh1jhzyQmieTh72PD9U3jH6Qhy9zWU4zoB4cTr" informed us of
our observed address "/ip4/80.77.186.186/tcp/8823"
2022-06-27 18:02:52.019 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:02:52.448 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:02:52.726 1 [info] <0.30264.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:02:52.727 1 [info] <0.30264.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.30263.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:02:52.993 1 [error]
<0.30263.0>@http2_client:handle_settings:822 gen_server <0.30263.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:02:52.995 1 [error]
<0.30263.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30263.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:02:52.996 1 [error]
<0.30264.0>@Undefined:Undefined:Undefined gen_server <0.30264.0>
terminated with reason: connection_down
2022-06-27 18:02:52.996 1 [error]
<0.30264.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.30264.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:02:52.996 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30264.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:02:52.997 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 18:02:52.997 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 18:02:52.997 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:02:52.999 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30263.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}]}]},host => "18.230.8.198",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4684>,socket\_mon => #Ref<0.155928093.3973316610.261206>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.30264.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}]},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 18:02:52.999 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30264.0>,connection\_down}

2022-06-27 18:03:02.179 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:03:03.000 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.89.130.114":



```
{gateway_validators_req_v1_pb,1}
2022-06-27 18:03:03.234 1 [info] <0.30268.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:03:03.235 1 [info] <0.30268.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.30267.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:03:03.460 1 [error]
<0.30267.0>@http2_client:handle_settings:822 gen_server <0.30267.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:03:03.461 1 [error]
<0.30267.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30267.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:03:03.462 1 [error]
<0.30268.0>@Undefined:Undefined:Undefined gen_server <0.30268.0>
terminated with reason: connection_down
2022-06-27 18:03:03.462 1 [error]
<0.30268.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.30268.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:03:03.463 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30268.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:03:03.463 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:03:03.464 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:03:03.464 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:03:03.465 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30267.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.89.130.114">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4685>,socket_mon =>
#Ref<0.155928093.3973840897.260076>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30268.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]]}
```

2022-06-27 18:03:03.466 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30268.0>,connection\_down}  
2022-06-27 18:03:06.447 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:03:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 18:03:06.448 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #{<<"ackr">>  
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>  
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:03:06  
GMT">>,<<"txnb">> => 0}  
2022-06-27 18:03:06.449 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4551,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:03:06 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 18:03:12.319 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:03:13.467 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.132.190.192":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:03:13.614 1 [info] <0.30280.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 18:03:13.615 1 [info] <0.30280.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"3.132.190.192">>,http\_connection => <0.30279.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 18:03:13.753 1 [error]  
<0.30279.0>@http2\_client:handle\_settings:822 gen\_server <0.30279.0>  
terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,

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<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:03:13.754 1 [error]
<0.30279.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30279.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:03:13.755 1 [error] <0.30280.0>@Undefined:Undefined:Undefined
gen_server <0.30280.0> terminated with reason: connection_down
2022-06-27 18:03:13.755 1 [error] <0.30280.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30280.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:03:13.755 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30280.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:03:13.756 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:03:13.756 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:03:13.756 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:03:13.757 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30279.0>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4686>,socket_mon =>
#Ref<0.155928093.3973840897.260373>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30280.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:03:13.758 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30280.0>,connection_down}
2022-06-27 18:03:22.469 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:03:23.759 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:03:23.983 1 [info] <0.30289.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:03:23.986 1 [info] <0.30289.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.30288.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:03:24.206 1 [error]
<0.30288.0>@http2_client:handle_settings:822 gen_server <0.30288.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:03:24.209 1 [error]
<0.30288.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30288.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:03:24.210 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30289.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:03:24.210 1 [error] <0.30289.0>@Undefined:Undefined:Undefined
gen_server <0.30289.0> terminated with reason: connection_down
2022-06-27 18:03:24.210 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:03:24.211 1 [error] <0.30289.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30289.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:03:24.212 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
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2022-06-27 18:03:24.213 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:03:24.214 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30288.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4687>,socket_mon =>
#Ref<0.155928093.3973316610.261338>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30289.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:03:24.215 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30289.0>,connection_down}
2022-06-27 18:03:32.616 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:03:34.216 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:03:34.544 1 [info] <0.30297.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 18:03:34.546 1 [info] <0.30297.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.30294.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:03:34.907 1 [error]
<0.30294.0>@http2_client:handle_settings:822 gen_server <0.30294.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:03:34.910 1 [error]
<0.30294.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30294.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:03:34.910 1 [error] <0.30297.0>@Undefined:Undefined:Undefined
gen_server <0.30297.0> terminated with reason: connection_down
2022-06-27 18:03:34.911 1 [error] <0.30297.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30297.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:03:34.911 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30297.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
```



```
2022-06-27 18:03:34.912 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:03:34.912 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:03:34.913 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:03:34.914 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30294.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4688>,socket_mon =>
#Ref<0.155928093.3973840897.260883>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30297.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}}
2022-06-27 18:03:34.915 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30297.0>,connection_down}
2022-06-27 18:03:36.441 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
```

```
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:03:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:03:36.442 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:03:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:03:36.443 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4555,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:03:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:03:42.766 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:03:44.915 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:03:45.191 1 [info] <0.30301.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:03:45.192 1 [info] <0.30301.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.30300.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:03:45.460 1 [error]
<0.30300.0>@http2_client:handle_settings:822 gen_server <0.30300.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:03:45.460 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30301.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]],
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:03:45.461 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:03:45.463 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:03:45.462 1 [error]
<0.30300.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30300.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:03:45.463 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:03:45.463 1 [error] <0.30301.0>@Undefined:Undefined:Undefined
gen_server <0.30301.0> terminated with reason: connection_down
2022-06-27 18:03:45.464 1 [error] <0.30301.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30301.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:03:45.467 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30300.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {56,
{<<":authority">>,<<"54.207.131.103">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}}], host => "54.207.131.103", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.4689>, socket_mon =>
#Ref<0.155928093.3973840897.261077>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.30301.0>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file,"http2_client.erl"}, {line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"}, {line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"}, {line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"}, {line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"}, {line,226}]]}]
2022-06-27 18:03:45.467 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30301.0>,connection_down}
2022-06-27 18:03:52.912 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:03:55.466 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:03:55.544 1 [info] <0.30308.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:03:55.545 1 [info] <0.30308.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.30307.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:03:55.623 1 [error]
<0.30307.0>@http2_client:handle_settings:822 gen_server <0.30307.0>
terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:03:55.625 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30308.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:03:55.626 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:03:55.627 1 [error]
<0.30307.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30307.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:03:55.627 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:03:55.627 1 [error] <0.30308.0>@Undefined:Undefined:Undefined
gen_server <0.30308.0> terminated with reason: connection_down
2022-06-27 18:03:55.627 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:03:55.628 1 [error]
<0.30308.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.30308.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:03:55.631 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.30307.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4690>,socket_mon =>
#Ref<0.155928093.3973840897.261286>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30308.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:03:55.632 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30308.0>,connection_down}
2022-06-27 18:04:03.049 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:04:05.630 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:04:05.679 1 [notice]
<0.30326.0>@libp2p_multistream_server:handle_info:{108,13} Failed to
handshake client "/ip4/192.168.5.233/tcp/49168": closed
2022-06-27 18:04:05.716 1 [info] <0.30328.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:04:05.717 1 [info] <0.30328.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.30325.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:04:05.798 1 [error] <0.30325.0>@Undefined:Undefined:Undefined
gen_server <0.30325.0> terminated with reason: closed_by_peer
2022-06-27 18:04:05.798 1 [error] <0.30325.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30325.0> with 0 neighbours exited with reason:
closed_by_peer in gen_server:handle_common_reply/8 line 811
2022-06-27 18:04:05.799 1 [error]
<0.30328.0>@Undefined:Undefined:Undefined gen_server <0.30328.0>
terminated with reason: connection_down
2022-06-27 18:04:05.799 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: error, Error: {case_clause,eof}, Stack:
[{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:04:05.800 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:04:05.800 1 [error]
<0.30328.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.30328.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:04:05.800 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:04:05.801 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:04:05.801 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30325.0>,closed\_by\_peer}  
2022-06-27 18:04:05.801 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30328.0>,connection\_down}  
2022-06-27 18:04:06.453 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:04:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 18:04:06.455 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:04:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 18:04:06.457 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4559,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:04:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 18:04:13.199 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 18:04:15.804 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.89.130.114":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:04:16.045 1 [info] <0.30341.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 18:04:16.046 1 [info] <0.30341.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"52.89.130.114">>,http\_connection => <0.30340.0>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 18:04:16.278 1 [error]  
<0.30340.0>@http2\_client:handle\_settings:822 gen\_server <0.30340.0> terminated with reason: no function clause matching



```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:04:16.280 1 [error]
<0.30340.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30340.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:04:16.281 1 [error] <0.30341.0>@Undefined:Undefined:Undefined
gen_server <0.30341.0> terminated with reason: connection_down
2022-06-27 18:04:16.281 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30341.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:04:16.282 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:04:16.282 1 [error] <0.30341.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30341.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:04:16.283 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:04:16.283 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:04:16.285 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30340.0>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4698>,socket_mon =>
#Ref<0.155928093.3973316610.261656>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30341.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 18:04:16.285 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30341.0>,connection_down}
2022-06-27 18:04:21.672 1 [info] <0.30344.0>@libp2p_transport_proxy:connect:
{38,5} init proxy with ["/p2p/
11u4nKGipGYoxWHR6MBdDboErQwYxxNYiA63HcmnwPcsWvHCF5J"/p2p/
11wVQir37BUYJy6KMwir49Q7PNQ3o9s1XU8WsANs59xvLWaPWqh"]
2022-06-27 18:04:21.680 1 [error]
<0.30344.0>@libp2p_transport_proxy:connect_to:{69,13} failed to dial proxy
server "/p2p/11u4nKGipGYoxWHR6MBdDboErQwYxxNYiA63HcmnwPcsWvHCF5J"
not_found
2022-06-27 18:04:21.681 1 [warning]
<0.1638.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
11wVQir37BUYJy6KMwir49Q7PNQ3o9s1XU8WsANs59xvLWaPWqh": [{"/p2p/
11u4nKGipGYoxWHR6MBdDboErQwYxxNYiA63HcmnwPcsWvHCF5J/p2p-circuit/
p2p/
11wVQir37BUYJy6KMwir49Q7PNQ3o9s1XU8WsANs59xvLWaPWqh",fail_dial_prox
y}]
```

```
2022-06-27 18:04:23.336 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:04:26.285 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:04:26.560 1 [info] <0.30350.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:04:26.561 1 [info] <0.30350.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.30349.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:04:26.828 1 [error]
<0.30349.0>@http2_client:handle_settings:822 gen_server <0.30349.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:04:26.830 1 [error]
<0.30349.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30349.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:04:26.831 1 [error] <0.30350.0>@Undefined:Undefined:Undefined
gen_server <0.30350.0> terminated with reason: connection_down
2022-06-27 18:04:26.832 1 [error]
<0.30350.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.30350.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:04:26.833 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30350.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 18:04:26.834 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:04:26.834 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:04:26.835 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:04:26.838 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30349.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4703>,socket_mon =>
#Ref<0.155928093.3973840897.262120>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30350.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:04:26.839 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30350.0>,connection_down}
2022-06-27 18:04:33.489 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:04:36.448 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:04:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:04:36.450 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:04:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:04:36.452 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4563,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:04:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:04:36.838 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:04:37.101 1 [info] <0.30354.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:04:37.102 1 [info] <0.30354.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.30353.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 18:04:37.363 1 [error]
<0.30353.0>@http2_client:handle_settings:822 gen_server <0.30353.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:04:37.366 1 [error]
<0.30353.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30353.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:04:37.368 1 [error] <0.30354.0>@Undefined:Undefined:Undefined
gen_server <0.30354.0> terminated with reason: connection_down
2022-06-27 18:04:37.369 1 [error] <0.30354.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30354.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:04:37.370 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30354.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:04:37.371 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:04:37.372 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:04:37.372 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

2022-06-27 18:04:37.374 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30353.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4704>,socket_mon =>
#Ref<0.155928093.3974103041.207>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30354.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 18:04:37.375 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30354.0>,connection_down}
```

2022-06-27 18:04:43.632 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 18:04:47.375 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
```

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 18:04:47.607 1 [info] <0.30361.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 18:04:47.609 1 [info] <0.30361.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"54.251.77.229">>,http_connection => <0.30360.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:04:47.840 1 [error]
<0.30360.0>@http2_client:handle_settings:822 gen_server <0.30360.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:04:47.840 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30361.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:04:47.840 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:04:47.841 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:04:47.841 1 [error]
<0.30360.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30360.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:04:47.842 1 [warning]
```



<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:04:47.842 1 [error] <0.30361.0>@Undefined:Undefined:Undefined gen\_server <0.30361.0> terminated with reason: connection\_down

2022-06-27 18:04:47.843 1 [error] <0.30361.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.30361.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 18:04:47.847 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30360.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"54.251.77.229">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "54.251.77.229",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4705>,socket\_mon => #Ref<0.155928093.3974103041.502>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.30361.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}]},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 18:04:47.847 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30361.0>,connection\_down}

2022-06-27 18:04:53.779 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:04:57.844 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send

unary request via new connection to ip "52.89.130.114":

```
{gateway_validators_req_v1_pb,1}
2022-06-27 18:04:58.061 1 [info] <0.30369.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:04:58.063 1 [info] <0.30369.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.30368.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:04:58.273 1 [error]
<0.30368.0>@http2_client:handle_settings:822 gen_server <0.30368.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:04:58.277 1 [error]
<0.30368.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30368.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:04:58.282 1 [error]
<0.30369.0>@Undefined:Undefined:Undefined gen_server <0.30369.0>
terminated with reason: connection_down
2022-06-27 18:04:58.282 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30369.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 18:04:58.283 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:04:58.283 1 [error]
<0.30369.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.30369.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:04:58.284 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:04:58.284 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:04:58.286 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30368.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4706>,socket_mon =>
#Ref<0.155928093.3974103041.768>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30369.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 18:04:58.286 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30369.0>,connection_down}
2022-06-27 18:05:03.925 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:05:06.455 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:05:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:05:06.456 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:05:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:05:06.457 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4567,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:05:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:05:08.287 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:05:08.437 1 [info] <0.30372.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:05:08.440 1 [info] <0.30372.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.30371.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:05:08.584 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30372.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
[{{file,"grpc_client_stream_custom.erl"},{line,418}}],{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 18:05:08.584 1 [error]
<0.30371.0>@http2_client:handle_settings:822 gen_server <0.30371.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:05:08.584 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:05:08.586 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:05:08.586 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:05:08.587 1 [error]
<0.30371.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30371.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:05:08.587 1 [error] <0.30372.0>@Undefined:Undefined:Undefined
gen_server <0.30372.0> terminated with reason: connection_down
2022-06-27 18:05:08.588 1 [error]
<0.30372.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.30372.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:05:08.591 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30371.0>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4707>,socket_mon =>
#Ref<0.155928093.3974103041.1003>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30372.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:05:08.592 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30372.0>,connection_down}
2022-06-27 18:05:14.083 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:05:18.588 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:05:18.821 1 [info] <0.30381.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:05:18.822 1 [info] <0.30381.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.30380.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:05:19.045 1 [error]
<0.30380.0>@http2_client:handle_settings:822 gen_server <0.30380.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:05:19.046 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30381.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:05:19.046 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:05:19.047 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:05:19.047 1 [error]
<0.30380.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30380.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:05:19.047 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:05:19.047 1 [error] <0.30381.0>@Undefined:Undefined:Undefined
```

gen\_server <0.30381.0> terminated with reason: connection\_down  
2022-06-27 18:05:19.049 1 [error] <0.30381.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.30381.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:05:19.049 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30380.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{53,  
{<<":authority">>,<<"54.70.239.5">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}]}},host => "54.70.239.5",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
>=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4708>,socket\_mon =>  
#Ref<0.155928093.3973316610.261935>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.30381.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}}  
2022-06-27 18:05:19.049 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30381.0>,connection\_down}  
2022-06-27 18:05:24.236 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:05:29.050 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.210.14.128":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:05:29.124 1 [info] <0.30390.0>@grpc\_client\_stream\_custom:init:



```
{131,9} init stream for RPC validators and type unary
2022-06-27 18:05:29.125 1 [info] <0.30390.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.30389.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:05:29.195 1 [error]
<0.30389.0>@http2_client:handle_settings:822 gen_server <0.30389.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:05:29.197 1 [error]
<0.30389.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30389.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:05:29.197 1 [error] <0.30390.0>@Undefined:Undefined:Undefined
gen_server <0.30390.0> terminated with reason: connection_down
2022-06-27 18:05:29.198 1 [error] <0.30390.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30390.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:05:29.198 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30390.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

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{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 18:05:29.198 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:05:29.199 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:05:29.199 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:05:29.200 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30389.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.210.14.128">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4709>,socket_mon =>
#Ref<0.155928093.3974103041.1588>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30390.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 18:05:29.201 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30390.0>,connection_down}
2022-06-27 18:05:34.379 1 [info]
```

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<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:05:36.455 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:05:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:05:36.456 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:05:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:05:36.459 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4571,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:05:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:05:39.202 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:05:39.462 1 [info] <0.30397.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:05:39.463 1 [info] <0.30397.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.30396.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:05:39.716 1 [error]
<0.30396.0>@http2_client:handle_settings:822 gen_server <0.30396.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:05:39.717 1 [error]
<0.30396.0>@http2_client:handle_settings:822 CRASH REPORT Process
```

```
<0.30396.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:05:39.717 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30397.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:05:39.718 1 [error] <0.30397.0>@Undefined:Undefined:Undefined
gen_server <0.30397.0> terminated with reason: connection_down
2022-06-27 18:05:39.718 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:05:39.718 1 [error] <0.30397.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30397.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:05:39.719 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:05:39.719 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:05:39.722 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30396.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4710>,socket_mon =>
#Ref<0.155928093.3974103041.1869>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30397.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:05:39.723 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30397.0>,connection_down}
2022-06-27 18:05:44.525 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:05:49.722 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:05:49.948 1 [info] <0.30405.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:05:49.949 1 [info] <0.30405.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.30404.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:05:50.171 1 [error]
<0.30404.0>@http2_client:handle_settings:822 gen_server <0.30404.0>
```

terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 18:05:50.172 1 [error]  
<0.30404.0>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.30404.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 18:05:50.173 1 [error] <0.30405.0>@Undefined:Undefined:Undefined  
gen\_server <0.30405.0> terminated with reason: connection\_down  
2022-06-27 18:05:50.173 1 [error] <0.30405.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.30405.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:05:50.174 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.30405.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]]  
2022-06-27 18:05:50.174 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 18:05:50.174 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 18:05:50.174 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:05:50.176 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst

```
in setup state: Type: info, Msg: {'EXIT',<0.30404.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4711>,socket_mon =>
#Ref<0.155928093.3974103041.2148>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30405.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:05:50.177 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30405.0>,connection_down}
2022-06-27 18:05:54.669 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:06:00.177 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:06:00.408 1 [info] <0.30414.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:06:00.409 1 [info] <0.30414.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.30413.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:06:00.665 1 [error]
<0.30413.0>@http2_client:handle_settings:822 gen_server <0.30413.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:06:00.667 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30414.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:06:00.667 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:06:00.670 1 [error]
<0.30413.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30413.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:06:00.670 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:06:00.671 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```



2022-06-27 18:06:00.672 1 [error] <0.30414.0>@Undefined:Undefined:Undefined  
gen\_server <0.30414.0> terminated with reason: connection\_down  
2022-06-27 18:06:00.672 1 [error] <0.30414.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.30414.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:06:00.675 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30413.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,  
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "54.251.77.229",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4712>,socket\_mon =>  
#Ref<0.155928093.3973054468.196295>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.30414.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}}  
2022-06-27 18:06:00.676 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30414.0>,connection\_down}  
2022-06-27 18:06:04.819 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:06:06.456 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>

```
<<"2022-06-27 18:06:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:06:06.457 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:06:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:06:06.460 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4575,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:06:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:06:10.673 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:06:10.907 1 [info] <0.30417.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:06:10.909 1 [info] <0.30417.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.30416.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:06:11.127 1 [error] <0.30416.0>@http2_client:handle_settings:822
gen_server <0.30416.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:06:11.129 1 [error] <0.30416.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30416.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:06:11.129 1 [error] <0.30417.0>@Undefined:Undefined:Undefined
gen_server <0.30417.0> terminated with reason: connection_down
2022-06-27 18:06:11.130 1 [error] <0.30417.0>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.30417.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:06:11.131 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.30417.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 18:06:11.131 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 18:06:11.132 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 18:06:11.133 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:06:11.136 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30416.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "13.215.75.202",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

```
16384},server_window => 65528,socket => #Port<0.4713>,socket_mon =>
#Ref<0.155928093.3974103041.2583>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30417.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:06:11.136 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30417.0>,connection_down}
2022-06-27 18:06:14.983 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:06:21.135 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:06:23.367 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11ecQGzywheiE41YZJL3fYhjiNVh5FmZDT5mXFwYcZd1ZLBb34P" informed us of
our observed address "/ip4/80.77.186.186/tcp/5460"
2022-06-27 18:06:25.122 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:06:28.242 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 2,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAE7522PANf0AHga90ctCAewrgFjPgvE/
345+UFSSksB6LDd3ChULtk5OJMKt9RYHg==">>,<<"datr">> =>
<<"SF12BW125">>,<<"foff">> => 321,<<"freq">> => 868.5,<<"jver">> =>
1,<<"lsnr">> => -1.2,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">> =>
1,<<"rssi">> => -104,<<"rssi">> => -107,<<"size">> => 52,<<"stat">> =>
1,<<"tmst">> => 344236984}]} from 12291671073248440251 on 35152
2022-06-27 18:06:32.064 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 7,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAHIFSpEACKSAIoDhkRz/0qwUIkOLu/
oJ16VOvEI5tKhkFSzZldhxWkL7PpcLV9G/g==">>,<<"datr">> =>
<<"SF12BW125">>,<<"foff">> => 273,<<"freq">> => 867.9,<<"jver">> =>
```

```
1,<<"lsnr">> => -16.2,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 0,<<"rssi">> => -112,<<"rssi">> => -127,<<"size">> => 52,<<"stat">> =>
1,<<"tmst">> => 348054674}} from 12291671073248440251 on 35152
2022-06-27 18:06:35.265 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:06:36.461 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
2,<<"rxnb">> => 2,<<"rxok">> => 2,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:06:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:06:36.462 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
2,<<"rxnb">> => 2,<<"rxok">> => 2,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:06:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:06:36.466 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4579,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 2,<<"rxnb">> => 2,<<"rxok">> => 2,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:06:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:06:45.409 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:06:51.138 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}]
2022-06-27 18:06:51.138 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:06:51.139 1 [error] <0.30420.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30420.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 18:06:51.139 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30420.0>,timeout}
2022-06-27 18:06:55.549 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:06:58.341 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 5,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAEUMwT4AGNSAH+8BGj3pnPyVAdlb8Trm/
l9i7Dw43UKAo4L6AFz0YaTEW8buAi3hA==">>,<<"datr">> =>
<<"SF12BW125">>,<<"foff">> => 491,<<"freq">> => 867.5,<<"jver">> =>
1,<<"lsnr">> => -9.2,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 0,<<"rssi">> => -111,<<"rssi">> => -119,<<"size">> => 52,<<"stat">> =>
1,<<"tmst">> => 374333780]}} from 12291671073248440251 on 35152
2022-06-27 18:07:01.140 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:07:01.222 1 [info] <0.30458.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:07:01.223 1 [info] <0.30458.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.30457.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:07:01.297 1 [error] <0.30457.0>@http2_client:handle_settings:822
gen_server <0.30457.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:07:01.298 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30458.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 18:07:01.298 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:07:01.299 1 [error]
<0.30457.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30457.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:07:01.299 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:07:01.299 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:07:01.300 1 [error] <0.30458.0>@Undefined:Undefined:Undefined
gen_server <0.30458.0> terminated with reason: connection_down
2022-06-27 18:07:01.300 1 [error] <0.30458.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30458.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:07:01.301 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30457.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{53,
{<<":authority">>,<<"3.70.55.231">>}],{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4720>,socket_mon =>
#Ref<0.155928093.3974103041.3525>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30458.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:07:01.301 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30458.0>,connection_down}
2022-06-27 18:07:05.699 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:07:06.459 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:07:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:07:06.460 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:07:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:07:06.461 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4583,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:07:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:07:11.302 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:07:11.394 1 [info] <0.30465.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:07:11.396 1 [info] <0.30465.0>@grpc_client_stream_custom:init:
```



```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.30464.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:07:11.477 1 [error] <0.30464.0>@http2_client:handle_settings:822
gen_server <0.30464.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:07:11.479 1 [error]
<0.30464.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30464.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:07:11.479 1 [error] <0.30465.0>@Undefined:Undefined:Undefined
gen_server <0.30465.0> terminated with reason: connection_down
2022-06-27 18:07:11.480 1 [error] <0.30465.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30465.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:07:11.480 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30465.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:07:11.480 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 18:07:11.482 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 18:07:11.482 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:07:11.484 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30464.0>,{function\_clause,  
[http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,282,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,  
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "52.30.1.39",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4721>,socket\_mon =>  
#Ref<0.155928093.3974103041.3642>,state => open,stream\_count => 1,streams  
=> [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner =>  
<0.30465.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}  
2022-06-27 18:07:11.485 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30465.0>,connection\_down}  
2022-06-27 18:07:15.849 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:07:21.485 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:07:21.656 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1638.0>
2022-06-27 18:07:21.820 1 [info] <0.30470.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:07:21.822 1 [info] <0.30470.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.30468.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:07:22.140 1 [error]
<0.30468.0>@http2_client:handle_settings:822 gen_server <0.30468.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:07:22.141 1 [error]
<0.30468.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30468.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:07:22.142 1 [error] <0.30470.0>@Undefined:Undefined:Undefined
gen_server <0.30470.0> terminated with reason: connection_down
2022-06-27 18:07:22.143 1 [error] <0.30470.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30470.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:07:22.143 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30470.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:07:22.143 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:07:22.143 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:07:22.143 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:07:22.145 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30468.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4722>,socket_mon =>
#Ref<0.155928093.3974103041.3764>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30470.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 18:07:22.145 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30470.0>,connection_down}
2022-06-27 18:07:25.992 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:07:32.146 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:07:32.364 1 [info] <0.30484.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:07:32.365 1 [info] <0.30484.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.30483.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:07:32.577 1 [error]
<0.30483.0>@http2_client:handle_settings:822 gen_server <0.30483.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:07:32.578 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30484.0>,{rcv,10000},infinity]}}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:07:32.579 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:07:32.579 1 [error]
<0.30483.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30483.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:07:32.579 1 [error] <0.30484.0>@Undefined:Undefined:Undefined
gen_server <0.30484.0> terminated with reason: connection_down
2022-06-27 18:07:32.579 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:07:32.579 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:07:32.579 1 [error] <0.30484.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30484.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:07:32.580 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30483.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4723>,socket_mon =>
#Ref<0.155928093.3974103041.4023>,state => open,stream_count => 1,streams
```

```
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30484.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:07:32.581 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30484.0>,connection_down}
2022-06-27 18:07:36.133 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:07:36.466 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:07:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:07:36.467 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:07:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:07:36.470 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4587,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:07:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:07:42.582 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:07:42.914 1 [info] <0.30494.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:07:42.915 1 [info] <0.30494.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.30491.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:07:43.246 1 [error]
<0.30491.0>@http2_client:handle_settings:822 gen_server <0.30491.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:07:43.248 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30494.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:07:43.248 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:07:43.248 1 [error]
<0.30491.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30491.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:07:43.249 1 [error]
<0.30494.0>@Undefined:Undefined:Undefined gen_server <0.30494.0>
terminated with reason: connection_down
2022-06-27 18:07:43.250 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```



2022-06-27 18:07:43.250 1 [error]

<0.30494.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.30494.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 18:07:43.250 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:07:43.253 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30491.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{53, {<<":authority">>,<<"3.104.32.11">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}]}]},host => "3.104.32.11",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4724>,socket\_mon => #Ref<0.155928093.3974103041.4222>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.30494.0>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 18:07:43.255 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30494.0>,connection\_down}

2022-06-27 18:07:46.279 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:07:53.252 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send

```
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:07:53.471 1 [info] <0.30500.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:07:53.472 1 [info] <0.30500.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.30499.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:07:53.691 1 [error]
<0.30499.0>@http2_client:handle_settings:822 gen_server <0.30499.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:07:53.693 1 [error]
<0.30499.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30499.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:07:53.693 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30500.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:07:53.693 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:07:53.693 1 [error] <0.30500.0>@Undefined:Undefined:Undefined
gen_server <0.30500.0> terminated with reason: connection_down
2022-06-27 18:07:53.693 1 [error] <0.30500.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30500.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:07:53.694 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:07:53.694 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:07:53.696 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30499.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"54.70.239.5">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4725>,socket_mon =>
#Ref<0.155928093.3973054468.196505>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30500.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:07:53.696 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30500.0>,connection\_down}  
2022-06-27 18:07:56.422 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 18:07:58.588 1 [info] <0.1636.0>@libp2p\_peerbook:notify\_peers: {726,5} gossiping out 1 notify peers  
2022-06-27 18:08:03.697 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.228.158.83":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:08:03.961 1 [info] <0.30508.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 18:08:03.962 1 [info] <0.30508.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"18.228.158.83">>,http\_connection => <0.30507.0>,scheme => <<"http">>,encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[ ]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 18:08:04.222 1 [error]  
<0.30507.0>@http2\_client:handle\_settings:822 gen\_server <0.30507.0> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 18:08:04.223 1 [error]  
<0.30507.0>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.30507.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 18:08:04.224 1 [error]  
<0.30508.0>@Undefined:Undefined:Undefined gen\_server <0.30508.0> terminated with reason: connection\_down  
2022-06-27 18:08:04.225 1 [error]  
<0.30508.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.30508.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

```
2022-06-27 18:08:04.227 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30508.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 18:08:04.228 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 18:08:04.228 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 18:08:04.229 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 18:08:04.233 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30507.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4726>,socket_mon =>
#Ref<0.155928093.3974103041.5157>,state => open,stream_count => 1,streams
```

```
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30508.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 18:08:04.234 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30508.0>,connection_down}
2022-06-27 18:08:06.459 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:08:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:08:06.460 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:08:06
GMT">>,<<"txnb">> => 0}
2022-06-27 18:08:06.462 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4590,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:08:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:08:06.569 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:08:14.232 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:08:14.298 1 [info] <0.30511.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:08:14.299 1 [info] <0.30511.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.30510.0>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:08:14.356 1 [error]
<0.30510.0>@http2_client:handle_settings:822 gen_server <0.30510.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:08:14.357 1 [error]
<0.30510.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30510.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:08:14.358 1 [error] <0.30511.0>@Undefined:Undefined:Undefined
gen_server <0.30511.0> terminated with reason: connection_down
2022-06-27 18:08:14.359 1 [error] <0.30511.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30511.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:08:14.359 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30511.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:08:14.359 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 18:08:14.360 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 18:08:14.360 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:08:14.361 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30510.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,282,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {52, {<<":authority">>,<<"3.72.215.7">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}}], host => "3.72.215.7",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4727>,socket\_mon => #Ref<0.155928093.3974103041.5338>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.30511.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 18:08:14.362 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30511.0>,connection\_down}

2022-06-27 18:08:16.699 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:08:24.363 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.230.8.198":



```
{gateway_validators_req_v1_pb,1}
2022-06-27 18:08:24.646 1 [info] <0.30514.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:08:24.648 1 [info] <0.30514.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.30513.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:08:24.914 1 [error]
<0.30513.0>@http2_client:handle_settings:822 gen_server <0.30513.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:08:24.915 1 [error]
<0.30513.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30513.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:08:24.915 1 [error] <0.30514.0>@Undefined:Undefined:Undefined
gen_server <0.30514.0> terminated with reason: connection_down
2022-06-27 18:08:24.916 1 [error] <0.30514.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30514.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:08:24.916 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30514.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:08:24.917 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:08:24.917 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:08:24.917 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:08:24.919 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30513.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4728>,socket_mon =>
#Ref<0.155928093.3974103041.5436>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30514.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}}
2022-06-27 18:08:24.919 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.30514.0>,connection_down}
2022-06-27 18:08:26.839 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:08:34.919 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:08:35.149 1 [info] <0.30517.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:08:35.152 1 [info] <0.30517.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.30516.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:08:35.372 1 [error]
<0.30516.0>@http2_client:handle_settings:822 gen_server <0.30516.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:08:35.373 1 [error]
<0.30516.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30516.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:08:35.374 1 [error] <0.30517.0>@Undefined:Undefined:Undefined
gen_server <0.30517.0> terminated with reason: connection_down
2022-06-27 18:08:35.376 1 [error] <0.30517.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30517.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:08:35.376 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30517.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 18:08:35.376 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:08:35.377 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:08:35.380 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:08:35.383 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30516.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4729>,socket_mon =>
#Ref<0.155928093.3974103041.5566>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30517.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:08:35.383 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30517.0>,connection_down}
2022-06-27 18:08:36.470 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:08:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:08:36.472 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:08:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:08:36.474 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4594,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:08:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:08:36.986 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:08:45.383 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:08:46.626 1 [info] <0.30520.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:08:46.629 1 [info] <0.30520.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.30519.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 18:08:46.857 1 [error]
<0.30519.0>@http2_client:handle_settings:822 gen_server <0.30519.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:08:46.858 1 [error]
<0.30519.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30519.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:08:46.859 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30520.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:08:46.859 1 [error]
<0.30520.0>@Undefined:Undefined:Undefined gen_server <0.30520.0>
terminated with reason: connection_down
2022-06-27 18:08:46.859 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:08:46.859 1 [error]
<0.30520.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.30520.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:08:46.860 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:08:46.860 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 18:08:46.862 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30519.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[[42, {<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66, {<<"content-type">>,<<"application/grpc+proto">>}],{55, {<<":authority">>,<<"54.251.77.229">>}],{63,{<<":path">>,<<"/helium.gateway/validators">>}]}],host => "54.251.77.229",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4730>,socket\_mon => #Ref<0.155928093.3974103041.5661>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.30520.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}]}  
2022-06-27 18:08:46.862 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30520.0>,connection\_down}  
2022-06-27 18:08:47.146 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 18:08:56.863 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.132.190.192":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:08:57.015 1 [info] <0.30523.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 18:08:57.017 1 [info] <0.30523.0>@grpc\_client\_stream\_custom:init:

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.30522.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:08:57.162 1 [error]
<0.30522.0>@http2_client:handle_settings:822 gen_server <0.30522.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:08:57.163 1 [error]
<0.30522.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30522.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:08:57.163 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30523.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:08:57.163 1 [error] <0.30523.0>@Undefined:Undefined:Undefined
gen_server <0.30523.0> terminated with reason: connection_down
2022-06-27 18:08:57.163 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```



2022-06-27 18:08:57.164 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 18:08:57.164 1 [error] <0.30523.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.30523.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:08:57.164 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:08:57.167 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30522.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>],24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}},host => "3.132.190.192",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4731>,socket\_mon =>  
#Ref<0.155928093.3973054468.196994>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.30523.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 18:08:57.167 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30523.0>,connection\_down}  
2022-06-27 18:08:57.292 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

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2022-06-27 18:09:06.466 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:09:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:09:06.467 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:09:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:09:06.470 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4598,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:09:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:09:07.167 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:09:07.398 1 [info] <0.30556.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:09:07.400 1 [info] <0.30556.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.30555.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,grpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:09:07.435 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:09:07.622 1 [error]
<0.30555.0>@http2_client:handle_settings:822 gen_server <0.30555.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:09:07.622 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30556.0>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:09:07.623 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:09:07.623 1 [error]
<0.30555.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30555.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:09:07.623 1 [error] <0.30556.0>@Undefined:Undefined:Undefined
gen_server <0.30556.0> terminated with reason: connection_down
2022-06-27 18:09:07.624 1 [error] <0.30556.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30556.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:09:07.624 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:09:07.624 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:09:07.625 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30555.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.89.130.114">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4732>,socket_mon =>
#Ref<0.155928093.3973054468.197114>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30556.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:09:07.626 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30556.0>,connection_down}
2022-06-27 18:09:17.596 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:09:17.626 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:09:17.778 1 [info] <0.30559.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:09:17.780 1 [info] <0.30559.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.30558.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:09:17.929 1 [error]
```

```
<0.30558.0>@http2_client:handle_settings:822 gen_server <0.30558.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:09:17.931 1 [error] <0.30558.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30558.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:09:17.933 1 [error] <0.30559.0>@Undefined:Undefined:Undefined
gen_server <0.30559.0> terminated with reason: connection_down
2022-06-27 18:09:17.933 1 [error] <0.30559.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30559.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:09:17.934 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30559.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:09:17.934 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:09:17.934 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:09:17.934 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:09:17.936 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.30558.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4733>,socket_mon =>
#Ref<0.155928093.3974103041.6040>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30559.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:09:17.936 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30559.0>,connection_down}
2022-06-27 18:09:27.742 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:09:27.936 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:09:28.213 1 [info] <0.30563.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:09:28.215 1 [info] <0.30563.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.30562.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:09:28.484 1 [error]
<0.30562.0>@http2_client:handle_settings:822 gen_server <0.30562.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:09:28.485 1 [error]
<0.30562.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30562.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:09:28.486 1 [error]
<0.30563.0>@Undefined:Undefined:Undefined gen_server <0.30563.0>
terminated with reason: connection_down
2022-06-27 18:09:28.487 1 [error]
<0.30563.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.30563.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:09:28.488 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30563.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:09:28.488 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 18:09:28.489 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:09:28.489 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:09:28.490 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30562.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4734>,socket_mon =>
#Ref<0.155928093.3974103041.6142>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30563.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 18:09:28.490 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30563.0>,connection_down}
2022-06-27 18:09:36.470 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:09:36 GMT">>,<<"txnb">> => 0}} from
```



```
12291671073248440251 on 35152
2022-06-27 18:09:36.471 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:09:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:09:36.472 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4602,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:09:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:09:37.890 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:09:38.492 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:09:38.728 1 [info] <0.30566.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:09:38.730 1 [info] <0.30566.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.30565.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:09:38.944 1 [error]
<0.30565.0>@http2_client:handle_settings:822 gen_server <0.30565.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:09:38.944 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30566.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl",{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl",{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl",{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl",{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl",{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl",{line,226}]]}
2022-06-27 18:09:38.945 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:09:38.945 1 [error]
<0.30565.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30565.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:09:38.945 1 [error]
<0.30566.0>@Undefined:Undefined:Undefined gen_server <0.30566.0>
terminated with reason: connection_down
2022-06-27 18:09:38.946 1 [error]
<0.30566.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.30566.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:09:38.946 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:09:38.946 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:09:38.948 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30565.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4735>,socket_mon =>
#Ref<0.155928093.3973316611.138006>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30566.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]]}}
2022-06-27 18:09:38.948 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30566.0>,connection_down}
2022-06-27 18:09:48.029 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:09:48.949 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:09:49.024 1 [info] <0.30569.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:09:49.025 1 [info] <0.30569.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.30568.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:09:49.093 1 [error]
<0.30568.0>@http2_client:handle_settings:822 gen_server <0.30568.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:09:49.094 1 [error]
<0.30568.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30568.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:09:49.094 1 [error]
<0.30569.0>@Undefined:Undefined:Undefined gen_server <0.30569.0>
terminated with reason: connection_down
2022-06-27 18:09:49.095 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30569.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:09:49.095 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:09:49.096 1 [error]
<0.30569.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.30569.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:09:49.096 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:09:49.096 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:09:49.098 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.30568.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4736>,socket_mon =>
#Ref<0.155928093.3973054468.197151>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30569.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:09:49.099 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30569.0>,connection_down}
2022-06-27 18:09:58.176 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:09:59.099 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:09:59.190 1 [info] <0.30572.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:09:59.191 1 [info] <0.30572.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.30571.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:09:59.274 1 [error]
<0.30571.0>@http2_client:handle_settings:822 gen_server <0.30571.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:09:59.275 1 [error]
<0.30571.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30571.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:09:59.276 1 [error] <0.30572.0>@Undefined:Undefined:Undefined
gen_server <0.30572.0> terminated with reason: connection_down
2022-06-27 18:09:59.277 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30572.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:09:59.277 1 [error] <0.30572.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30572.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:09:59.277 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:09:59.277 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 18:09:59.277 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 18:09:59.279 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30571.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"52.210.14.128">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "52.210.14.128",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4737>,socket\_mon => #Ref<0.155928093.3974103041.6426>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.30572.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 18:09:59.279 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30572.0>,connection\_down}  
2022-06-27 18:10:06.470 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:10:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 18:10:06.471 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:

```
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:10:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:10:06.473 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4606,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:10:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:10:08.329 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:10:09.280 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:10:09.503 1 [info] <0.30592.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:10:09.504 1 [info] <0.30592.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.30589.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:10:09.718 1 [error]
<0.30589.0>@http2_client:handle_settings:822 gen_server <0.30589.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:10:09.719 1 [error]
<0.30589.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30589.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:10:09.719 1 [error] <0.30592.0>@Undefined:Undefined:Undefined
gen_server <0.30592.0> terminated with reason: connection_down
```



```
2022-06-27 18:10:09.720 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30592.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:10:09.720 1 [error] <0.30592.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30592.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:10:09.720 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:10:09.720 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:10:09.720 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:10:09.722 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30589.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4738>,socket_mon =>
#Ref<0.155928093.3974103041.6639>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30592.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:10:09.722 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30592.0>,connection_down}
2022-06-27 18:10:18.465 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:10:19.723 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:10:20.045 1 [info] <0.30621.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:10:20.046 1 [info] <0.30621.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.30620.0>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:10:20.369 1 [error]
<0.30620.0>@http2_client:handle_settings:822 gen_server <0.30620.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:10:20.369 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.30621.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:10:20.369 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:10:20.370 1 [error]
<0.30620.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30620.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:10:20.370 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:10:20.370 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:10:20.371 1 [error] <0.30621.0>@Undefined:Undefined:Undefined
gen_server <0.30621.0> terminated with reason: connection_down
2022-06-27 18:10:20.371 1 [error] <0.30621.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30621.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:10:20.373 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30620.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4740>,socket_mon =>
#Ref<0.155928093.3974103041.6936>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30621.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:10:20.373 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30621.0>,connection_down}
2022-06-27 18:10:28.605 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:10:30.373 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:10:30.446 1 [info] <0.30624.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:10:30.448 1 [info] <0.30624.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.30623.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:10:30.517 1 [error] <0.30623.0>@http2_client:handle_settings:822
gen_server <0.30623.0> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:10:30.519 1 [error]
<0.30623.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30623.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:10:30.520 1 [error] <0.30624.0>@Undefined:Undefined:Undefined
gen_server <0.30624.0> terminated with reason: connection_down
2022-06-27 18:10:30.520 1 [error] <0.30624.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30624.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:10:30.522 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30624.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:10:30.523 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:10:30.524 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:10:30.525 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:10:30.528 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30623.0>,{function_clause,
```

```
{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4741>,socket_mon =>
#Ref<0.155928093.3974103041.7139>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30624.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 18:10:30.529 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30624.0>,connection_down}
2022-06-27 18:10:36.465 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:10:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:10:36.466 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:10:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:10:36.467 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4610,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 18:10:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:10:38.749 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:10:40.527 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:10:40.848 1 [info] <0.30627.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:10:40.849 1 [info] <0.30627.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.30626.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:10:41.168 1 [error] <0.30626.0>@http2_client:handle_settings:822
gen_server <0.30626.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:10:41.172 1 [error] <0.30626.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30626.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:10:41.173 1 [error] <0.30627.0>@Undefined:Undefined:Undefined
gen_server <0.30627.0> terminated with reason: connection_down
2022-06-27 18:10:41.175 1 [error] <0.30627.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30627.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:10:41.180 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30627.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]
2022-06-27 18:10:41.180 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:10:41.181 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:10:41.182 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:10:41.184 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30626.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4742>,socket_mon =>
#Ref<0.155928093.3973054468.197374>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30627.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```



```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 18:10:41.186 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30627.0>,connection_down}
2022-06-27 18:10:48.900 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:10:51.185 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:10:51.508 1 [info] <0.30630.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:10:51.510 1 [info] <0.30630.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.30629.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:10:51.821 1 [error] <0.30629.0>@http2_client:handle_settings:822
gen_server <0.30629.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:10:51.822 1 [error]
<0.30629.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30629.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:10:51.823 1 [error] <0.30630.0>@Undefined:Undefined:Undefined
gen_server <0.30630.0> terminated with reason: connection_down
2022-06-27 18:10:51.823 1 [error] <0.30630.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30630.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:10:51.825 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30630.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:10:51.826 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:10:51.826 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:10:51.827 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:10:51.830 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30629.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4743>,socket_mon =>
#Ref<0.155928093.3974103041.7516>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
```

```
<0.30630.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl",{line,226}}}}}}
2022-06-27 18:10:51.831 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30630.0>,connection_down}
2022-06-27 18:10:59.045 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:11:01.830 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:11:02.110 1 [info] <0.30634.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:11:02.112 1 [info] <0.30634.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.30633.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:11:02.382 1 [error]
<0.30633.0>@http2_client:handle_settings:822 gen_server <0.30633.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:11:02.384 1 [error]
<0.30633.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30633.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 18:11:02.385 1 [error] <0.30634.0>@Undefined:Undefined:Undefined
gen_server <0.30634.0> terminated with reason: connection_down
2022-06-27 18:11:02.386 1 [error] <0.30634.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30634.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:11:02.385 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30634.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:11:02.386 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:11:02.387 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:11:02.387 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:11:02.389 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30633.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{54,
{<<":authority">>,<<"3.39.165.144">>}}],{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4744>,socket_mon =>
#Ref<0.155928093.3974103041.7884>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30634.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}}
2022-06-27 18:11:02.390 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30634.0>,connection_down}
2022-06-27 18:11:06.474 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:11:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:11:06.475 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:11:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:11:06.476 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4614,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:11:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:11:09.190 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:11:12.390 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:11:12.608 1 [info] <0.30643.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 18:11:12.609 1 [info] <0.30643.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.30642.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:11:12.824 1 [error] <0.30642.0>@http2_client:handle_settings:822
gen_server <0.30642.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:11:12.826 1 [error] <0.30642.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30642.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:11:12.827 1 [error] <0.30643.0>@Undefined:Undefined:Undefined
gen_server <0.30643.0> terminated with reason: connection_down
2022-06-27 18:11:12.828 1 [error] <0.30643.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30643.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:11:12.830 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30643.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:11:12.830 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 18:11:12.831 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 18:11:12.832 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:11:12.833 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30642.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,  
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "35.82.239.134",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4745>,socket\_mon =>  
#Ref<0.155928093.3973054468.197467>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.30643.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}  
2022-06-27 18:11:12.834 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30643.0>,connection\_down}  
2022-06-27 18:11:19.343 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:11:22.834 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:11:22.904 1 [info] <0.30671.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:11:22.905 1 [info] <0.30671.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.30670.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:11:22.964 1 [error]
<0.30670.0>@http2_client:handle_settings:822 gen_server <0.30670.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:11:22.965 1 [error]
<0.30670.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30670.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:11:22.966 1 [error] <0.30671.0>@Undefined:Undefined:Undefined
gen_server <0.30671.0> terminated with reason: connection_down
2022-06-27 18:11:22.966 1 [error] <0.30671.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30671.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:11:22.967 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30671.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```



```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:11:22.967 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:11:22.968 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:11:22.968 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:11:22.970 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30670.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4746>,socket_mon =>
#Ref<0.155928093.3974103041.8349>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30671.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}
```

2022-06-27 18:11:22.970 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30671.0>,connection\_down}  
2022-06-27 18:11:29.485 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:11:32.971 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "54.251.77.229":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:11:33.206 1 [info] <0.30674.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 18:11:33.207 1 [info] <0.30674.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"54.251.77.229">>,http\_connection => <0.30673.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 18:11:33.437 1 [error] <0.30673.0>@http2\_client:handle\_settings:822  
gen\_server <0.30673.0> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 18:11:33.439 1 [error]  
<0.30673.0>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.30673.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 18:11:33.439 1 [error] <0.30674.0>@Undefined:Undefined:Undefined  
gen\_server <0.30674.0> terminated with reason: connection\_down  
2022-06-27 18:11:33.440 1 [error] <0.30674.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.30674.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:11:33.440 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.30674.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[file,"gen\_server.erl"],{line,247}}],

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:11:33.440 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:11:33.441 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:11:33.441 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:11:33.442 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30673.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4747>,socket_mon =>
#Ref<0.155928093.3973054468.197683>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30674.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:11:33.443 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30674.0>,connection_down}
2022-06-27 18:11:36.467 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:11:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:11:36.468 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:11:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:11:36.469 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4618,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:11:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:11:39.619 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:11:43.444 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:11:43.596 1 [info] <0.30677.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:11:43.596 1 [info] <0.30677.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.30676.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 18:11:43.744 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30677.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:11:43.745 1 [error] <0.30676.0>@http2_client:handle_settings:822
gen_server <0.30676.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:11:43.745 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:11:43.746 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:11:43.746 1 [error] <0.30676.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30676.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:11:43.746 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:11:43.747 1 [error] <0.30677.0>@Undefined:Undefined:Undefined
gen_server <0.30677.0> terminated with reason: connection_down
2022-06-27 18:11:43.748 1 [error] <0.30677.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30677.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:11:43.749 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.30676.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4748>,socket_mon =>
#Ref<0.155928093.3973054468.197703>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30677.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:11:43.750 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30677.0>,connection_down}
2022-06-27 18:11:49.766 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:11:53.749 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:11:53.896 1 [info] <0.30680.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:11:53.898 1 [info] <0.30680.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.30679.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:11:54.034 1 [error]
<0.30679.0>@http2_client:handle_settings:822 gen_server <0.30679.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:11:54.035 1 [error]
<0.30679.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30679.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:11:54.036 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30680.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:11:54.036 1 [error] <0.30680.0>@Undefined:Undefined:Undefined
gen_server <0.30680.0> terminated with reason: connection_down
2022-06-27 18:11:54.036 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:11:54.037 1 [error] <0.30680.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30680.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:11:54.037 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 18:11:54.037 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 18:11:54.038 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30679.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{54, {<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.137.92.200",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4749>,socket\_mon => #Ref<0.155928093.3973054468.197756>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.30680.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}}  
2022-06-27 18:11:54.039 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30680.0>,connection\_down}  
2022-06-27 18:11:59.925 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 18:12:04.040 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.251.77.229":  
{gateway\_validators\_req\_v1\_pb,1}



```
2022-06-27 18:12:04.263 1 [info] <0.30683.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:12:04.265 1 [info] <0.30683.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.30682.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:12:04.480 1 [error]
<0.30682.0>@http2_client:handle_settings:822 gen_server <0.30682.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:12:04.483 1 [error]
<0.30682.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30682.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:12:04.484 1 [error] <0.30683.0>@Undefined:Undefined:Undefined
gen_server <0.30683.0> terminated with reason: connection_down
2022-06-27 18:12:04.484 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30683.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:12:04.484 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 18:12:04.484 1 [error] <0.30683.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.30683.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 18:12:04.485 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 18:12:04.486 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:12:04.489 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30682.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "54.251.77.229",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4750>,socket\_mon => #Ref<0.155928093.3973054468.197784>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.30683.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 18:12:04.490 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30683.0>,connection\_down}

2022-06-27 18:12:06.474 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:12:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 18:12:06.476 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:12:06 GMT">>,<<"txnb">> => 0}

2022-06-27 18:12:06.478 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4622,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:12:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 18:12:10.073 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:12:14.488 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.24.161.210":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 18:12:14.800 1 [info] <0.30687.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 18:12:14.801 1 [info] <0.30687.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.24.161.210">>,http\_connection => <0.30685.0>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 18:12:15.109 1 [error] <0.30685.0>@http2\_client:handle\_settings:822 gen\_server <0.30685.0> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 18:12:15.110 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.30687.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

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{file,"gen_server.erl"},{line,247}}},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:12:15.110 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:12:15.110 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:12:15.111 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:12:15.111 1 [error] <0.30685.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30685.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:12:15.112 1 [error] <0.30687.0>@Undefined:Undefined:Undefined
gen_server <0.30687.0> terminated with reason: connection_down
2022-06-27 18:12:15.112 1 [error] <0.30687.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30687.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:12:15.114 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30685.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

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{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4751>,socket_mon =>
#Ref<0.155928093.3973054468.197813>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30687.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 18:12:15.115 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30687.0>,connection_down}
2022-06-27 18:12:20.222 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:12:21.657 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1641.0>
2022-06-27 18:12:25.112 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:12:30.362 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:12:36.470 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:12:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:12:36.471 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:12:36 GMT">>,<<"txnb">> => 0}
```

2022-06-27 18:12:36.472 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4626,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:12:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 18:12:40.509 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:12:50.652 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:12:55.116 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[{"miner\_poc\_grpc\_client\_statem",send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,719}]},  
{"miner\_poc\_grpc\_client\_statem",find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{"miner\_poc\_grpc\_client\_statem",setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{"gen\_statem",loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{"proc\_lib",init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]

2022-06-27 18:12:55.116 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:12:55.117 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30717.0>,timeout}

2022-06-27 18:12:55.117 1 [error] <0.30717.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.30717.0> with 0 neighbours exited with reason: timeout in gen\_server:init\_it/6 line 407

2022-06-27 18:13:00.796 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:13:05.119 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.237.155.172":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 18:13:05.438 1 [info] <0.30719.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 18:13:05.439 1 [info] <0.30719.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host =>

```
<<"13.237.155.172">>,http_connection => <0.30718.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:13:05.753 1 [error] <0.30718.0>@http2_client:handle_settings:822
gen_server <0.30718.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:13:05.756 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30719.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:13:05.756 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:13:05.756 1 [error] <0.30718.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30718.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:13:05.757 1 [error] <0.30719.0>@Undefined:Undefined:Undefined
gen_server <0.30719.0> terminated with reason: connection_down
2022-06-27 18:13:05.757 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:13:05.757 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:13:05.758 1 [error] <0.30719.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.30719.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 18:13:05.760 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30718.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{56, {<<":authority">>,<<"13.237.155.172">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "13.237.155.172",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4753>,socket\_mon => #Ref<0.155928093.3973054468.198252>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.30719.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}

2022-06-27 18:13:05.760 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30719.0>,connection\_down}

2022-06-27 18:13:06.480 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:13:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 18:13:06.480 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:



```
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:13:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:13:06.481 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4630,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:13:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:13:10.946 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:13:15.760 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:13:21.096 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:13:31.239 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:13:36.474 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:13:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:13:36.474 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:13:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:13:36.476 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4634,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:13:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:13:41.379 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:13:45.764 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:13:45.764 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:13:45.765 1 [error] <0.30721.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30721.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 18:13:45.766 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30721.0>,timeout}
2022-06-27 18:13:51.530 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:13:55.766 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:13:55.851 1 [info] <0.30776.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:13:55.853 1 [info] <0.30776.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.30775.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:13:55.930 1 [error]
<0.30775.0>@http2_client:handle_settings:822 gen_server <0.30775.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:13:55.930 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30776.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:13:55.930 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:13:55.931 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:13:55.931 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:13:55.932 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30775.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"3.72.215.7">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4765>,socket_mon =>
#Ref<0.155928093.3973054468.198670>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.30776.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 18:13:55.933 1 [error]
<0.30775.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30775.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:13:55.933 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30776.0>,connection_down}
2022-06-27 18:13:55.933 1 [error] <0.30776.0>@Undefined:Undefined:Undefined
gen_server <0.30776.0> terminated with reason: connection_down
2022-06-27 18:13:55.933 1 [error] <0.30776.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30776.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:14:01.679 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:14:05.934 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:14:06.270 1 [info] <0.30779.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:14:06.271 1 [info] <0.30779.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.30778.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:14:06.477 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:14:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:14:06.478 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:14:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:14:06.479 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4638,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:14:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:14:06.644 1 [error]
<0.30778.0>@http2_client:handle_settings:822 gen_server <0.30778.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:14:06.646 1 [error]
<0.30778.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30778.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:14:06.646 1 [error] <0.30779.0>@Undefined:Undefined:Undefined
gen_server <0.30779.0> terminated with reason: connection_down
2022-06-27 18:14:06.647 1 [error] <0.30779.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30779.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:14:06.648 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30779.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:14:06.649 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:14:06.650 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:14:06.650 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:14:06.653 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30778.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4766>,socket_mon =>
#Ref<0.155928093.3973054468.198745>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30779.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]]}
```

```
2022-06-27 18:14:06.655 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30779.0>,connection_down}
2022-06-27 18:14:11.835 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:14:16.653 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:14:16.873 1 [info] <0.30782.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:14:16.875 1 [info] <0.30782.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.30781.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:14:17.095 1 [error] <0.30781.0>@http2_client:handle_settings:822
gen_server <0.30781.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:14:17.096 1 [error] <0.30781.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30781.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:14:17.097 1 [error] <0.30782.0>@Undefined:Undefined:Undefined
gen_server <0.30782.0> terminated with reason: connection_down
2022-06-27 18:14:17.098 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30782.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 18:14:17.098 1 [error] <0.30782.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30782.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:14:17.098 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:14:17.099 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:14:17.099 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:14:17.100 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30781.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4767>,socket_mon =>
#Ref<0.155928093.3973054468.198796>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30782.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```



```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:14:17.101 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30782.0>,connection_down}
2022-06-27 18:14:21.982 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:14:27.102 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:14:27.316 1 [info] <0.30788.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:14:27.317 1 [info] <0.30788.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.30787.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:14:27.530 1 [error] <0.30787.0>@http2_client:handle_settings:822
gen_server <0.30787.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:14:27.533 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30788.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:14:27.533 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:14:27.533 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:14:27.534 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:14:27.534 1 [error] <0.30787.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30787.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:14:27.534 1 [error] <0.30788.0>@Undefined:Undefined:Undefined
gen_server <0.30788.0> terminated with reason: connection_down
2022-06-27 18:14:27.535 1 [error] <0.30788.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30788.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:14:27.536 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30787.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4768>,socket_mon =>
#Ref<0.155928093.3973054468.198882>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30788.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:14:27.537 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30788.0>,connection_down}
2022-06-27 18:14:32.129 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:14:36.483 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:14:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:14:36.484 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:14:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:14:36.485 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4642,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:14:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:14:37.537 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:14:42.279 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:14:52.425 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:15:02.576 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833  
2022-06-27 18:15:06.485 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:15:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 18:15:06.485 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:15:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 18:15:06.486 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4646,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:15:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 18:15:07.540 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}]],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}]],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}]],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}]],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}]]}  
2022-06-27 18:15:07.540 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:15:07.541 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.30812.0>,timeout}  
2022-06-27 18:15:07.541 1 [error] <0.30812.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.30812.0> with 0 neighbours exited with reason:  
timeout in gen\_server:init\_it/6 line 407  
2022-06-27 18:15:12.709 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:15:17.543 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.125.32.225":  
{gateway\_validators\_req\_v1\_pb,1}

```
2022-06-27 18:15:17.817 1 [info] <0.30814.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:15:17.818 1 [info] <0.30814.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.30813.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:15:18.088 1 [error] <0.30813.0>@http2_client:handle_settings:822
gen_server <0.30813.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:15:18.089 1 [error] <0.30813.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30813.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:15:18.089 1 [error] <0.30814.0>@Undefined:Undefined:Undefined
gen_server <0.30814.0> terminated with reason: connection_down
2022-06-27 18:15:18.089 1 [error] <0.30814.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30814.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:15:18.090 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30814.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 18:15:18.091 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:15:18.091 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:15:18.091 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:15:18.093 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30813.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4770>,socket_mon =>
#Ref<0.155928093.3973054468.199101>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30814.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:15:18.093 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30814.0>,connection_down}
2022-06-27 18:15:22.869 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833

2022-06-27 18:15:28.094 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.230.8.198":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 18:15:28.375 1 [info] <0.30818.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 18:15:28.376 1 [info] <0.30818.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"18.230.8.198">>,http\_connection => <0.30817.0>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}},name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[],[]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 18:15:28.650 1 [error] <0.30817.0>@http2\_client:handle\_settings:822 gen\_server <0.30817.0> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 18:15:28.651 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.30818.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},

{miner\_poc\_grpc\_client\_statem,setup,3,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},

{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}

2022-06-27 18:15:28.651 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 18:15:28.651 1 [error] <0.30817.0>@http2\_client:handle\_settings:822

CRASH REPORT Process <0.30817.0> with 0 neighbours crashed with reason: no

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:15:28.652 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:15:28.652 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:15:28.652 1 [error] <0.30818.0>@Undefined:Undefined:Undefined
gen_server <0.30818.0> terminated with reason: connection_down
2022-06-27 18:15:28.653 1 [error] <0.30818.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30818.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:15:28.653 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30817.0>,{function_clause,
[{'http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"18.230.8.198">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4771>,socket_mon =>
#Ref<0.155928093.3973054468.199141>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30818.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
```



2022-06-27 18:15:28.653 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30818.0>,connection\_down}

2022-06-27 18:15:33.026 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:15:36.478 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:15:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 18:15:36.479 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:15:36 GMT">>,<<"txnb">> => 0}

2022-06-27 18:15:36.480 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway #gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4650,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:15:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 18:15:38.655 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.215.75.202": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 18:15:38.878 1 [info] <0.30838.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 18:15:38.879 1 [info] <0.30838.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #<<buffer => <<>>,compression => none,connection => #<<client => http2\_client,host => <<"13.215.75.202">>,http\_connection => <0.30837.0>,scheme => <<"http">>,encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #<<{}>>,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 18:15:39.100 1 [error] <0.30837.0>@http2\_client:handle\_settings:822 gen\_server <0.30837.0> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #<<buffer => <<>>,client\_settings => #<<enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...>>,...}) line 822

```
2022-06-27 18:15:39.101 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30838.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 18:15:39.101 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 18:15:39.101 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 18:15:39.101 1 [error] <0.30837.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30837.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 18:15:39.101 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 18:15:39.101 1 [error] <0.30838.0>@Undefined:Undefined:Undefined
gen_server <0.30838.0> terminated with reason: connection_down
```

```
2022-06-27 18:15:39.102 1 [error] <0.30838.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30838.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 18:15:39.102 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30837.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.215.75.202">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4772>,socket_mon =>
#Ref<0.155928093.3973054468.199237>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30838.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:15:39.103 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30838.0>,connection_down}
2022-06-27 18:15:43.176 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:15:49.104 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:15:49.366 1 [info] <0.30849.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:15:49.366 1 [info] <0.30849.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.30848.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:15:49.622 1 [error]
```

```
<0.30848.0>@http2_client:handle_settings:822 gen_server <0.30848.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:15:49.623 1 [error]
<0.30848.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30848.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:15:49.625 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30849.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:15:49.625 1 [error] <0.30849.0>@Undefined:Undefined:Undefined
gen_server <0.30849.0> terminated with reason: connection_down
2022-06-27 18:15:49.625 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:15:49.625 1 [error] <0.30849.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30849.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:15:49.625 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:15:49.625 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:15:49.626 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30848.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4773>,socket_mon =>
#Ref<0.155928093.3973054468.199291>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30849.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 18:15:49.627 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30849.0>,connection_down}
2022-06-27 18:15:53.323 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:15:59.628 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:15:59.889 1 [info] <0.30853.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:15:59.891 1 [info] <0.30853.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.30852.0>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:16:00.145 1 [error]
<0.30852.0>@http2_client:handle_settings:822 gen_server <0.30852.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:16:00.150 1 [error]
<0.30852.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30852.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:16:00.150 1 [error] <0.30853.0>@Undefined:Undefined:Undefined
gen_server <0.30853.0> terminated with reason: connection_down
2022-06-27 18:16:00.151 1 [error] <0.30853.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30853.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:16:00.153 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30853.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:16:00.154 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 18:16:00.156 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 18:16:00.156 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:16:00.159 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30852.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[[42, {<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66, {<<"content-type">>,<<"application/grpc+proto">>}],{56, {<<":authority">>,<<"54.207.131.103">>}],{63,{<<":path">>,<<"/helium.gateway/validators">>}]}],host => "54.207.131.103",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4774>,socket\_mon => #Ref<0.155928093.3973054468.199351>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.30853.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 18:16:00.160 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30853.0>,connection\_down}

2022-06-27 18:16:03.475 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:16:06.483 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>

```
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:16:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:16:06.485 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:16:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:16:06.487 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4654,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:16:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:16:10.158 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:16:10.375 1 [info] <0.30856.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:16:10.377 1 [info] <0.30856.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.30855.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:16:10.584 1 [error]
<0.30855.0>@http2_client:handle_settings:822 gen_server <0.30855.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:16:10.585 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30856.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```



```
{file,"miner_poc_grpc_client_statem.erl"},{line,721}}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 18:16:10.585 1 [error]
<0.30855.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30855.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:16:10.585 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:16:10.586 1 [error] <0.30856.0>@Undefined:Undefined:Undefined
gen_server <0.30856.0> terminated with reason: connection_down
2022-06-27 18:16:10.586 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:16:10.586 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:16:10.586 1 [error] <0.30856.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30856.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:16:10.587 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30855.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4775>,socket_mon =>
#Ref<0.155928093.3973054468.199393>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30856.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:16:10.587 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30856.0>,connection_down}
2022-06-27 18:16:13.632 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:16:20.589 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:16:20.669 1 [info] <0.30859.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:16:20.670 1 [info] <0.30859.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.30858.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:16:20.740 1 [error]
<0.30858.0>@http2_client:handle_settings:822 gen_server <0.30858.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:16:20.741 1 [error] <0.30858.0>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.30858.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:16:20.741 1 [error] <0.30859.0>@Undefined:Undefined:Undefined
gen_server <0.30859.0> terminated with reason: connection_down
2022-06-27 18:16:20.741 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30859.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:16:20.742 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:16:20.742 1 [error] <0.30859.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30859.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:16:20.742 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:16:20.742 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:16:20.743 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30858.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"52.210.14.128">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4776>,socket_mon =>
#Ref<0.155928093.3973054468.199457>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30859.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 18:16:20.744 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30859.0>,connection_down}
2022-06-27 18:16:23.776 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:16:30.745 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:16:31.011 1 [info] <0.30862.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:16:31.013 1 [info] <0.30862.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.30861.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:16:31.276 1 [error] <0.30861.0>@http2_client:handle_settings:822
gen_server <0.30861.0> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:16:31.277 1 [error] <0.30861.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30861.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:16:31.277 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30862.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:16:31.277 1 [error] <0.30862.0>@Undefined:Undefined:Undefined
gen_server <0.30862.0> terminated with reason: connection_down
2022-06-27 18:16:31.278 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:16:31.278 1 [error] <0.30862.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30862.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:16:31.278 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:16:31.278 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:16:31.279 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30861.0>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4777>,socket_mon =>
#Ref<0.155928093.3973054468.199502>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30862.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:16:31.280 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30862.0>,connection_down}
2022-06-27 18:16:33.929 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:16:36.484 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:16:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:16:36.485 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:16:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:16:36.487 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=4658,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:16:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:16:41.281 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:16:41.506 1 [info] <0.30870.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:16:41.509 1 [info] <0.30870.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.30869.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:16:41.720 1 [error]
<0.30869.0>@http2_client:handle_settings:822 gen_server <0.30869.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:16:41.723 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30870.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:16:41.724 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 18:16:41.724 1 [error]
<0.30869.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30869.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:16:41.725 1 [error] <0.30870.0>@Undefined:Undefined:Undefined
gen_server <0.30870.0> terminated with reason: connection_down
2022-06-27 18:16:41.725 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:16:41.725 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:16:41.726 1 [error] <0.30870.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30870.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:16:41.730 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30869.0>,{function_clause,
[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4778>,socket_mon =>
#Ref<0.155928093.3973054468.199589>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30870.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```



```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:16:41.731 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30870.0>,connection_down}
2022-06-27 18:16:44.079 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:16:51.728 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:16:51.880 1 [info] <0.30893.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:16:51.880 1 [info] <0.30893.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.30892.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:16:52.020 1 [error]
<0.30892.0>@http2_client:handle_settings:822 gen_server <0.30892.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:16:52.020 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30893.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:16:52.020 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:16:52.021 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:16:52.021 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:16:52.022 1 [error]
<0.30892.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30892.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:16:52.022 1 [error] <0.30893.0>@Undefined:Undefined:Undefined
gen_server <0.30893.0> terminated with reason: connection_down
2022-06-27 18:16:52.022 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30892.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4779>,socket_mon =>
#Ref<0.155928093.3973054468.199679>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30893.0>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 18:16:52.022 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30893.0>,connection_down}
2022-06-27 18:16:52.022 1 [error] <0.30893.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30893.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:16:54.223 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:17:02.022 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:17:02.256 1 [info] <0.30896.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:17:02.258 1 [info] <0.30896.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.30895.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:17:02.491 1 [error]
<0.30895.0>@http2_client:handle_settings:822 gen_server <0.30895.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:17:02.493 1 [error]
<0.30895.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30895.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:17:02.493 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30896.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:17:02.493 1 [error] <0.30896.0>@Undefined:Undefined:Undefined
gen_server <0.30896.0> terminated with reason: connection_down
2022-06-27 18:17:02.493 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:17:02.493 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:17:02.493 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:17:02.493 1 [error] <0.30896.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30896.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:17:02.495 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30895.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4780>,socket_mon =>
#Ref<0.155928093.3974103041.15237>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30896.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:17:02.496 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30896.0>,connection_down}
2022-06-27 18:17:04.365 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:17:06.488 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:17:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:17:06.489 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:17:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:17:06.492 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4662,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:17:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:17:12.495 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 18:17:12.768 1 [info] <0.30899.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:17:12.770 1 [info] <0.30899.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.30898.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:17:13.027 1 [error] <0.30898.0>@http2_client:handle_settings:822
gen_server <0.30898.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:17:13.029 1 [error]
<0.30898.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30898.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:17:13.029 1 [error] <0.30899.0>@Undefined:Undefined:Undefined
gen_server <0.30899.0> terminated with reason: connection_down
2022-06-27 18:17:13.029 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30899.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:17:13.029 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

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Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:17:13.030 1 [error] <0.30899.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30899.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:17:13.030 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:17:13.030 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:17:13.032 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30898.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4781>,socket_mon =>
#Ref<0.155928093.3974103041.15441>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30899.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:17:13.032 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30899.0>,connection_down}
2022-06-27 18:17:14.520 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:17:21.658 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1640.0>
2022-06-27 18:17:23.032 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:17:23.264 1 [info] <0.30905.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:17:23.266 1 [info] <0.30905.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.30904.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:17:23.488 1 [error]
<0.30904.0>@http2_client:handle_settings:822 gen_server <0.30904.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:17:23.490 1 [error]
<0.30904.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30904.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:17:23.490 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30905.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```



```
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:17:23.490 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:17:23.490 1 [error] <0.30905.0>@Undefined:Undefined:Undefined
gen_server <0.30905.0> terminated with reason: connection_down
2022-06-27 18:17:23.491 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:17:23.491 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:17:23.491 1 [error] <0.30905.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30905.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:17:23.493 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30904.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.89.130.114">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4782>,socket_mon =>
#Ref<0.155928093.3974103041.15694>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30905.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:17:23.494 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30905.0>,connection_down}
2022-06-27 18:17:24.679 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:17:33.494 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:17:33.818 1 [info] <0.30909.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:17:33.819 1 [info] <0.30909.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.30908.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:17:34.127 1 [error] <0.30908.0>@http2_client:handle_settings:822
gen_server <0.30908.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:17:34.129 1 [error]
<0.30908.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30908.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:17:34.129 1 [error] <0.30909.0>@Undefined:Undefined:Undefined
gen_server <0.30909.0> terminated with reason: connection_down
2022-06-27 18:17:34.129 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30909.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:17:34.129 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:17:34.129 1 [error] <0.30909.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30909.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:17:34.130 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:17:34.130 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:17:34.132 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30908.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.211.55.217">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},server_window => 65528,socket => #Port<0.4783>,socket_mon =>
#Ref<0.155928093.3973578754.4875>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30909.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 18:17:34.132 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30909.0>,connection_down}
2022-06-27 18:17:34.812 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:17:36.494 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:17:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:17:36.496 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:17:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:17:36.498 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4666,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:17:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:17:44.133 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:17:44.369 1 [info] <0.30914.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:17:44.370 1 [info] <0.30914.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.30913.0>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:17:44.604 1 [error]
<0.30913.0>@http2_client:handle_settings:822 gen_server <0.30913.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:17:44.606 1 [error]
<0.30913.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30913.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:17:44.607 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30914.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:17:44.607 1 [error] <0.30914.0>@Undefined:Undefined:Undefined
gen_server <0.30914.0> terminated with reason: connection_down
2022-06-27 18:17:44.607 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:17:44.608 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

2022-06-27 18:17:44.608 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:17:44.610 1 [error] <0.30914.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.30914.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 18:17:44.612 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30913.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[[42, {<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66, {<<"content-type">>,<<"application/grpc+proto">>}],{56, {<<":authority">>,<<"52.220.227.216">>}],{63,{<<":path">>,<<"/helium.gateway/validators">>}]}],host => "52.220.227.216",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4784>,socket\_mon => #Ref<0.155928093.3973578754.4920>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.30914.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}

2022-06-27 18:17:44.613 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.30914.0>,connection\_down}

2022-06-27 18:17:44.956 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:17:54.610 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.131.232.233":

```
{gateway_validators_req_v1_pb,1}
2022-06-27 18:17:54.764 1 [info] <0.30935.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:17:54.765 1 [info] <0.30935.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.30934.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:17:54.918 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30935.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:17:54.918 1 [error]
<0.30934.0>@http2_client:handle_settings:822 gen_server <0.30934.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:17:54.918 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:17:54.919 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:17:54.919 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 18:17:54.921 1 [error]
<0.30934.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30934.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:17:54.922 1 [error] <0.30935.0>@Undefined:Undefined:Undefined
gen_server <0.30935.0> terminated with reason: connection_down
2022-06-27 18:17:54.922 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30934.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4785>,socket_mon =>
#Ref<0.155928093.3973578754.5105>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30935.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:17:54.922 1 [error] <0.30935.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30935.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:17:54.923 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```



```
in setup state: Type: info, Msg: {'EXIT',<0.30935.0>,connection_down}
2022-06-27 18:17:55.092 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:17:59.082 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 0,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAEzFXAjAGT1APR9inWzXlthHB/xAd/W1uP6/
zmBR4TxB+k0sl99Ch1uwSo0j/64Ng==">>,<<"datr">> =>
<<"SF12BW125">>,<<"foff">> => -342,<<"freq">> => 868.1,<<"jver">> =>
1,<<"lsnr">> => -7.2,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">> =>
1,<<"rssi">> => -109,<<"rssi">> => -116,<<"size">> => 52,<<"stat">> =>
1,<<"tmst">> => 1035080986}}] from 12291671073248440251 on 35152
2022-06-27 18:18:04.922 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:18:05.074 1 [info] <0.30938.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:18:05.076 1 [info] <0.30938.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.30937.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:18:05.242 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:18:05.254 1 [error]
<0.30937.0>@http2_client:handle_settings:822 gen_server <0.30937.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:18:05.255 1 [error]
<0.30937.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30937.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 18:18:05.256 1 [error] <0.30938.0>@Undefined:Undefined:Undefined
gen_server <0.30938.0> terminated with reason: connection_down
2022-06-27 18:18:05.257 1 [error] <0.30938.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30938.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:18:05.258 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30938.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:18:05.258 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:18:05.259 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:18:05.259 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:18:05.261 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30937.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
```

```
{<<":authority">>,<<"3.132.190.192">>},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4786>,socket_mon =>
#Ref<0.155928093.3973578754.5238>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30938.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:18:05.261 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30938.0>,connection_down}
2022-06-27 18:18:06.495 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:18:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:18:06.496 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:18:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:18:06.497 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4670,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:18:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:18:15.262 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:18:15.389 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:18:15.419 1 [info] <0.30941.0>@grpc_client_stream_custom:init:
```

```
{131,9} init stream for RPC validators and type unary
2022-06-27 18:18:15.420 1 [info] <0.30941.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>},http_connection => <0.30940.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:18:15.570 1 [error]
<0.30940.0>@http2_client:handle_settings:822 gen_server <0.30940.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:18:15.571 1 [error] <0.30940.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30940.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:18:15.572 1 [error] <0.30941.0>@Undefined:Undefined:Undefined
gen_server <0.30941.0> terminated with reason: connection_down
2022-06-27 18:18:15.572 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30941.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:18:15.572 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 18:18:15.572 1 [error] <0.30941.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30941.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:18:15.572 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:18:15.572 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:18:15.574 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30940.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4787>,socket_mon =>
#Ref<0.155928093.3973316611.139062>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.30941.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:18:15.574 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30941.0>,connection_down}
2022-06-27 18:18:25.549 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833

2022-06-27 18:18:25.575 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.210.14.128":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 18:18:25.661 1 [info] <0.30944.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 18:18:25.662 1 [info] <0.30944.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"52.210.14.128">>,http\_connection => <0.30943.0>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[],[]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 18:18:25.742 1 [error]

<0.30943.0>@http2\_client:handle\_settings:822 gen\_server <0.30943.0>

terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 18:18:25.743 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.30944.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},

{miner\_poc\_grpc\_client\_statem,setup,3,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},

{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}

2022-06-27 18:18:25.743 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message =>

<<"stream create failed">>}}

2022-06-27 18:18:25.743 1 [error]

```
<0.30943.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30943.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:18:25.744 1 [error] <0.30944.0>@Undefined:Undefined:Undefined
gen_server <0.30944.0> terminated with reason: connection_down
2022-06-27 18:18:25.744 1 [error] <0.30944.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30944.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:18:25.744 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:18:25.745 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:18:25.746 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30943.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],}],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4788>,socket_mon =>
#Ref<0.155928093.3973578754.5532>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30944.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 18:18:25.747 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30944.0>,connection_down}
2022-06-27 18:18:33.444 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 7,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAE7bfe+AFvGALVd45FxoqeoEM0rLrPluMs3hMBPeH9RiYKURFG6Wg95
DTmPCXnAFw==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
-91,<<"freq">> => 867.9,<<"jver">> => 1,<<"lsnr">> => -18.2,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -113,<<"rssi_s">>
=> -130,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 1069435041}} from
12291671073248440251 on 35152
2022-06-27 18:18:35.699 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:18:35.747 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:18:36.025 1 [info] <0.30947.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:18:36.026 1 [info] <0.30947.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.30946.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:18:36.293 1 [error]
<0.30946.0>@http2_client:handle_settings:822 gen_server <0.30946.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:18:36.294 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30947.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```



```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:18:36.294 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:18:36.294 1 [error]
<0.30946.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30946.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:18:36.295 1 [error] <0.30947.0>@Undefined:Undefined:Undefined
gen_server <0.30947.0> terminated with reason: connection_down
2022-06-27 18:18:36.295 1 [error] <0.30947.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30947.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:18:36.296 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:18:36.296 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:18:36.297 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30946.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4789>,socket_mon =>
#Ref<0.155928093.3973578754.5690>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30947.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:18:36.298 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30947.0>,connection_down}
2022-06-27 18:18:36.500 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:18:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:18:36.501 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:18:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:18:36.503 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4674,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:18:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:18:45.849 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:18:46.299 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 18:18:46.627 1 [info] <0.30950.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:18:46.629 1 [info] <0.30950.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.30949.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:18:46.946 1 [error]
<0.30949.0>@http2_client:handle_settings:822 gen_server <0.30949.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:18:46.948 1 [error]
<0.30949.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30949.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:18:46.948 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30950.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:18:46.948 1 [error] <0.30950.0>@Undefined:Undefined:Undefined
gen_server <0.30950.0> terminated with reason: connection_down
2022-06-27 18:18:46.948 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:18:46.949 1 [error] <0.30950.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30950.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:18:46.949 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:18:46.949 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:18:46.950 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30949.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4790>,socket_mon =>
#Ref<0.155928093.3973578754.5858>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30950.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:18:46.951 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30950.0>,connection_down}
```

```
2022-06-27 18:18:56.012 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:18:56.952 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:18:57.286 1 [info] <0.30967.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:18:57.287 1 [info] <0.30967.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.30964.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:18:57.620 1 [error]
<0.30964.0>@http2_client:handle_settings:822 gen_server <0.30964.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:18:57.623 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30967.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:18:57.623 1 [error]
<0.30964.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30964.0> with 0 neighbours crashed with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:18:57.624 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:18:57.624 1 [error] <0.30967.0>@Undefined:Undefined:Undefined
gen_server <0.30967.0> terminated with reason: connection_down
2022-06-27 18:18:57.625 1 [error] <0.30967.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30967.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:18:57.625 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:18:57.626 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:18:57.629 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30964.0>,{function_clause,
[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4791>,socket_mon =>
#Ref<0.155928093.3973578754.6073>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30967.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:18:57.630 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30967.0>,connection_down}
2022-06-27 18:19:06.163 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:19:06.499 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:19:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:19:06.500 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:19:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:19:06.501 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4678,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:19:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:19:07.627 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:19:07.699 1 [info] <0.30976.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:19:07.700 1 [info] <0.30976.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.30975.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:19:07.763 1 [error] <0.30975.0>@http2_client:handle_settings:822
gen_server <0.30975.0> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:19:07.764 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30976.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:19:07.765 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:19:07.766 1 [error] <0.30975.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.30975.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:19:07.766 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:19:07.767 1 [error] <0.30976.0>@Undefined:Undefined:Undefined
gen_server <0.30976.0> terminated with reason: connection_down
2022-06-27 18:19:07.767 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:19:07.767 1 [error] <0.30976.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30976.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:19:07.770 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30975.0>,{function_clause,
[{http2_client,handle_settings,
```



```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4792>,socket_mon =>
#Ref<0.155928093.3973578754.6215>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30976.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:19:07.771 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30976.0>,connection_down}
2022-06-27 18:19:16.309 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:19:17.769 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:19:18.103 1 [info] <0.30979.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:19:18.105 1 [info] <0.30979.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.30978.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:19:18.432 1 [error]
<0.30978.0>@http2_client:handle_settings:822 gen_server <0.30978.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:19:18.432 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30979.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:19:18.433 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:19:18.433 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:19:18.433 1 [error]
<0.30978.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30978.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:19:18.433 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:19:18.435 1 [error] <0.30979.0>@Undefined:Undefined:Undefined
gen_server <0.30979.0> terminated with reason: connection_down
```

```
2022-06-27 18:19:18.435 1 [error] <0.30979.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.30979.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:19:18.435 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30978.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4793>,socket_mon =>
#Ref<0.155928093.3973578754.6282>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30979.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:19:18.436 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30979.0>,connection_down}
2022-06-27 18:19:26.459 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:19:27.947 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11sZmmPqWzEzAg35yKu77ni3fbP9KY7S4KWDhR8HWkuojM8Kejz" informed us
of our observed address "/ip4/80.77.186.186/tcp/22441"
2022-06-27 18:19:28.435 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

```
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:19:28.702 1 [info] <0.30999.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:19:28.704 1 [info] <0.30999.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.30998.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:19:28.957 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.30999.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:19:28.957 1 [error]
<0.30998.0>@http2_client:handle_settings:822 gen_server <0.30998.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:19:28.957 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:19:28.957 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:19:28.957 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:19:28.958 1 [error]
<0.30998.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.30998.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:19:28.958 1 [error] <0.30999.0>@Undefined:Undefined:Undefined
gen_server <0.30999.0> terminated with reason: connection_down
2022-06-27 18:19:28.959 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30998.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4799>,socket_mon =>
#Ref<0.155928093.3973578754.6444>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.30999.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:19:28.959 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.30999.0>,connection_down}
2022-06-27 18:19:28.959 1 [error] <0.30999.0>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.30999.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 18:19:36.500 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:19:36 GMT">>,<<"txnb">> => 0}} from

12291671073248440251 on 35152

2022-06-27 18:19:36.500 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:19:36 GMT">>,<<"txnb">> => 0}

2022-06-27 18:19:36.501 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway

#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4681,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:19:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 18:19:36.605 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

2022-06-27 18:19:38.960 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.13.130.184":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 18:19:39.128 1 [info] <0.31002.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary

2022-06-27 18:19:39.130 1 [info] <0.31002.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"3.13.130.184">>,http\_connection => <0.31001.0>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[[],[]]},response\_pending => false,grpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler

2022-06-27 18:19:39.287 1 [error] <0.31001.0>@http2\_client:handle\_settings:822  
gen\_server <0.31001.0> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 18:19:39.289 1 [error] <0.31001.0>@http2\_client:handle\_settings:822

```
CRASH REPORT Process <0.31001.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:19:39.290 1 [error] <0.31002.0>@Undefined:Undefined:Undefined
gen_server <0.31002.0> terminated with reason: connection_down
2022-06-27 18:19:39.291 1 [error] <0.31002.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31002.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:19:39.291 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31002.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:19:39.291 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:19:39.292 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:19:39.292 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:19:39.295 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31001.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4800>,socket_mon =>
#Ref<0.155928093.3973578754.6525>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31002.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:19:39.296 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31002.0>,connection_down}
2022-06-27 18:19:46.752 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:19:49.295 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:19:49.443 1 [info] <0.31005.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:19:49.444 1 [info] <0.31005.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.31004.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:19:49.589 1 [error]
<0.31004.0>@http2_client:handle_settings:822 gen_server <0.31004.0>
```



```
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:19:49.590 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31005.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:19:49.590 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:19:49.590 1 [error]
<0.31004.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31004.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:19:49.591 1 [error] <0.31005.0>@Undefined:Undefined:Undefined
gen_server <0.31005.0> terminated with reason: connection_down
2022-06-27 18:19:49.592 1 [error] <0.31005.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31005.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:19:49.594 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:19:49.594 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:19:49.598 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.31004.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4801>,socket_mon =>
#Ref<0.155928093.3973054468.199852>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31005.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:19:49.599 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31005.0>,connection_down}
2022-06-27 18:19:56.902 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:19:59.597 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:19:59.941 1 [info] <0.31018.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:19:59.942 1 [info] <0.31018.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.31016.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:20:00.270 1 [error] <0.31016.0>@http2_client:handle_settings:822
gen_server <0.31016.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:20:00.272 1 [error] <0.31016.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31016.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:20:00.273 1 [error] <0.31018.0>@Undefined:Undefined:Undefined
gen_server <0.31018.0> terminated with reason: connection_down
2022-06-27 18:20:00.274 1 [error] <0.31018.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31018.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:20:00.274 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31018.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:20:00.274 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:20:00.275 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 18:20:00.275 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:20:00.278 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31016.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4802>,socket_mon =>
#Ref<0.155928093.3973578754.6666>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31018.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:20:00.279 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31018.0>,connection_down}
2022-06-27 18:20:06.503 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:20:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:20:06.503 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 18:20:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:20:06.504 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4685,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:20:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:20:07.052 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:20:10.278 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:20:10.515 1 [info] <0.31044.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:20:10.516 1 [info] <0.31044.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.31043.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:20:10.738 1 [error]
<0.31043.0>@http2_client:handle_settings:822 gen_server <0.31043.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:20:10.739 1 [error]
<0.31043.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31043.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:20:10.740 1 [error] <0.31044.0>@Undefined:Undefined:Undefined
gen_server <0.31044.0> terminated with reason: connection_down
2022-06-27 18:20:10.740 1 [error] <0.31044.0>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.31044.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:20:10.740 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.31044.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}  
2022-06-27 18:20:10.741 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 18:20:10.742 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 18:20:10.742 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:20:10.744 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31043.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[],},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "54.251.77.229",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

```
16384},server_window => 65528,socket => #Port<0.4804>,socket_mon =>
#Ref<0.155928093.3973578754.6833>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31044.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:20:10.745 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31044.0>,connection_down}
2022-06-27 18:20:17.202 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:20:20.745 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:20:27.353 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:20:36.498 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:20:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:20:36.498 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:20:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:20:36.499 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4689,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:20:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:20:37.515 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833  
2022-06-27 18:20:47.662 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:20:50.750 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}]],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}]],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}]],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}]],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}]]]  
2022-06-27 18:20:50.750 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:20:50.751 1 [error] <0.31046.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.31046.0> with 0 neighbours exited with reason:  
timeout in gen\_server:init\_it/6 line 407  
2022-06-27 18:20:50.752 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31046.0>,timeout}  
2022-06-27 18:20:57.822 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:21:00.753 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.70.55.231":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:21:00.836 1 [info] <0.31055.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 18:21:00.838 1 [info] <0.31055.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"3.70.55.231">>,http\_connection => <0.31054.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}},name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 18:21:00.913 1 [error] <0.31054.0>@http2\_client:handle\_settings:822



```
gen_server <0.31054.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:21:00.913 1 [error] <0.31054.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31054.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:21:00.916 1 [error] <0.31055.0>@Undefined:Undefined:Undefined
gen_server <0.31055.0> terminated with reason: connection_down
2022-06-27 18:21:00.917 1 [error] <0.31055.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31055.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:21:00.917 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31055.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:21:00.917 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:21:00.918 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:21:00.919 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:21:00.922 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31054.0>,{function_clause,
```

```
{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4806>,socket_mon =>
#Ref<0.155928093.3973578754.7002>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31055.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 18:21:00.922 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31055.0>,connection_down}
2022-06-27 18:21:06.496 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:21:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:21:06.497 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:21:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:21:06.498 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4693,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 18:21:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:21:07.982 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:21:10.922 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:21:11.086 1 [info] <0.31077.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:21:11.087 1 [info] <0.31077.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.31076.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:21:11.455 1 [error] <0.31076.0>@http2_client:handle_settings:822
gen_server <0.31076.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:21:11.456 1 [error] <0.31076.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31076.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:21:11.457 1 [error] <0.31077.0>@Undefined:Undefined:Undefined
gen_server <0.31077.0> terminated with reason: connection_down
2022-06-27 18:21:11.457 1 [error] <0.31077.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31077.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:21:11.458 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31077.0>,{rcv,10000},infinity]}} , Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

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{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:21:11.458 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:21:11.459 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:21:11.460 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:21:11.462 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31076.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4807>,socket_mon =>
#Ref<0.155928093.3973578754.7149>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31077.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:21:11.462 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31077.0>,connection_down} 2022-06-27
18:21:18.125 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 18:21:21.462 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:21:21.742 1 [info] <0.31081.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:21:21.746 1 [info] <0.31081.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.31080.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:21:22.017 1 [error] <0.31080.0>@http2_client:handle_settings:822
gen_server <0.31080.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:21:22.019 1 [error] <0.31080.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31080.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:21:22.020 1 [error] <0.31081.0>@Undefined:Undefined:Undefined
gen_server <0.31081.0> terminated with reason: connection_down
2022-06-27 18:21:22.020 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31081.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl",{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl",{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl",{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl",{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl",{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl",{line,226}]]}
2022-06-27 18:21:22.021 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:21:22.021 1 [error] <0.31081.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31081.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:21:22.022 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:21:22.022 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:21:22.025 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31080.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"18.230.8.198">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4808>,socket_mon =>
#Ref<0.155928093.3973578754.7201>,state => open,stream_count => 1,streams
=> [[1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31081.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 18:21:22.026 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31081.0>,connection_down}
2022-06-27 18:21:28.265 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:21:32.025 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:21:32.284 1 [info] <0.31084.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:21:32.285 1 [info] <0.31084.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.31083.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:21:32.544 1 [error]
<0.31083.0>@http2_client:handle_settings:822 gen_server <0.31083.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:21:32.547 1 [error]
<0.31083.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31083.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:21:32.547 1 [error] <0.31084.0>@Undefined:Undefined:Undefined
```

gen\_server <0.31084.0> terminated with reason: connection\_down  
2022-06-27 18:21:32.547 1 [error] <0.31084.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.31084.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:21:32.548 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.31084.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[file,"gen\_server.erl"],{line,247}}],  
{grpc\_client\_stream\_custom,process\_response,2,  
[file,"grpc\_client\_stream\_custom.erl"],{line,418}}],{grpc\_client\_custom,unary,6,  
[file,"grpc\_client\_custom.erl"],{line,278}}],  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,721}}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}}],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}}],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}}}]  
2022-06-27 18:21:32.548 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 18:21:32.548 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 18:21:32.549 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:21:32.550 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31083.0>,{function\_clause,  
[http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{56,  
{<<":authority">>,<<"18.228.115.118">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "18.228.115.118",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size



```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4809>,socket_mon =>
#Ref<0.155928093.3973578754.7244>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31084.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 18:21:32.551 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31084.0>,connection_down}
2022-06-27 18:21:36.507 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:21:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:21:36.507 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:21:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:21:36.508 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4697,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:21:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:21:38.415 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:21:42.551 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:21:42.733 1 [info] <0.31092.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:21:42.735 1 [info] <0.31092.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.31091.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:21:42.893 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31092.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:21:42.894 1 [error] <0.31091.0>@http2_client:handle_settings:822
gen_server <0.31091.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:21:42.894 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:21:42.895 1 [error] <0.31091.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31091.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:21:42.895 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:21:42.895 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

validator failed: {error,req\_failed}  
2022-06-27 18:21:42.895 1 [error] <0.31092.0>@Undefined:Undefined:Undefined  
gen\_server <0.31092.0> terminated with reason: connection\_down  
2022-06-27 18:21:42.895 1 [error] <0.31092.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.31092.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:21:42.896 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31091.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "3.137.92.200",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4810>,socket\_mon =>  
#Ref<0.155928093.3973578754.7288>,state => open,stream\_count => 1,streams  
=> [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner =>  
<0.31092.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}}  
2022-06-27 18:21:42.897 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31092.0>,connection\_down}  
2022-06-27 18:21:48.562 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:21:52.898 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.220.227.216":

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{gateway_validators_req_v1_pb,1}
2022-06-27 18:21:53.126 1 [info] <0.31095.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:21:53.127 1 [info] <0.31095.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.31094.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:21:53.352 1 [error]
<0.31094.0>@http2_client:handle_settings:822 gen_server <0.31094.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:21:53.357 1 [error]
<0.31094.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31094.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:21:53.357 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31095.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:21:53.357 1 [error] <0.31095.0>@Undefined:Undefined:Undefined
gen_server <0.31095.0> terminated with reason: connection_down
```

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2022-06-27 18:21:53.358 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:21:53.359 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:21:53.358 1 [error] <0.31095.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31095.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:21:53.360 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:21:53.363 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31094.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4811>,socket_mon =>
#Ref<0.155928093.3973578754.7321>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31095.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:21:53.364 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.31095.0>,connection_down}
2022-06-27 18:21:58.715 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:22:03.363 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:22:03.602 1 [info] <0.31098.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:22:03.603 1 [info] <0.31098.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.31097.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:22:03.837 1 [error]
<0.31097.0>@http2_client:handle_settings:822 gen_server <0.31097.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:22:03.838 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31098.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:22:03.839 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

```
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:22:03.840 1 [error]
<0.31097.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31097.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:22:03.840 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:22:03.840 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:22:03.841 1 [error] <0.31098.0>@Undefined:Undefined:Undefined
gen_server <0.31098.0> terminated with reason: connection_down
2022-06-27 18:22:03.842 1 [error] <0.31098.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31098.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:22:03.843 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31097.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4812>,socket_mon =>
#Ref<0.155928093.3973578754.7373>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31098.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:22:03.843 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31098.0>,connection_down}
2022-06-27 18:22:06.499 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:22:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:22:06.499 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:22:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:22:06.501 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4701,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:22:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:22:08.856 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:22:13.843 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:22:18.993 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:22:21.659 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1641.0>
2022-06-27 18:22:29.144 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:22:36.510 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
```



```
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:22:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:22:36.510 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:22:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:22:36.512 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4705,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:22:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:22:39.303 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:22:43.846 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 18:22:43.846 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:22:43.847 1 [error] <0.31113.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31113.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 18:22:43.847 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31113.0>,timeout}
2022-06-27 18:22:49.455 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:22:53.849 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 18:22:53.929 1 [info] <0.31138.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:22:53.930 1 [info] <0.31138.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.31137.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:22:54.005 1 [error] <0.31137.0>@http2_client:handle_settings:822
gen_server <0.31137.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:22:54.006 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31138.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:22:54.006 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:22:54.006 1 [error] <0.31137.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31137.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:22:54.007 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 18:22:54.007 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 18:22:54.007 1 [error] <0.31138.0>@Undefined:Undefined:Undefined gen\_server <0.31138.0> terminated with reason: connection\_down  
2022-06-27 18:22:54.008 1 [error] <0.31138.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.31138.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:22:54.008 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31137.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {54, {<<":authority">>,<<"3.72.143.228">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.72.143.228",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4815>,socket\_mon => #Ref<0.155928093.3973578754.7737>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.31138.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 18:22:54.009 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31138.0>,connection\_down}  
2022-06-27 18:22:58.277 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/

11yngEw1wwArMQsqlRxcMphziTTk4TbZK2vLx4NM88njF1vNsi" informed us of our observed address "/ip4/80.77.186.186/tcp/17747"

2022-06-27 18:22:59.615 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:23:04.010 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.137.92.200":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 18:23:04.239 1 [info] <0.31157.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 18:23:04.240 1 [info] <0.31157.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.137.92.200">>,http\_connection => <0.31156.0>,scheme => <<"http">>,encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 18:23:04.677 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.31157.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]}]

2022-06-27 18:23:04.678 1 [error]  
<0.31156.0>@http2\_client:handle\_settings:822 gen\_server <0.31156.0> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 18:23:04.678 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}  
2022-06-27 18:23:04.679 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 18:23:04.679 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 18:23:04.679 1 [error]  
<0.31156.0>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.31156.0> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 18:23:04.680 1 [error] <0.31157.0>@Undefined:Undefined:Undefined gen\_server <0.31157.0> terminated with reason: connection\_down  
2022-06-27 18:23:04.680 1 [error] <0.31157.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.31157.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:23:04.681 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31156.0>,{function\_clause, [{http2\_client,handle\_settings, [],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{54, {<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.137.92.200",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4821>,socket\_mon => #Ref<0.155928093.3973578754.7793>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.31157.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport =>

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:23:04.682 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31157.0>,connection_down}
2022-06-27 18:23:06.504 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:23:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:23:06.505 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:23:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:23:06.506 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4709,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:23:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:23:09.765 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:23:14.682 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:23:14.834 1 [info] <0.31164.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:23:14.836 1 [info] <0.31164.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.31163.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 18:23:14.987 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31164.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:23:14.988 1 [error] <0.31163.0>@http2_client:handle_settings:822
gen_server <0.31163.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:23:14.988 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:23:14.989 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:23:14.989 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:23:14.991 1 [error] <0.31163.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31163.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:23:14.991 1 [error] <0.31164.0>@Undefined:Undefined:Undefined
gen_server <0.31164.0> terminated with reason: connection_down
2022-06-27 18:23:14.992 1 [error] <0.31164.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31164.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:23:14.995 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31163.0>,{function_clause,
[{:http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4822>,socket_mon =>
#Ref<0.155928093.3973578754.7831>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31164.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:23:14.997 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31164.0>,connection_down}
2022-06-27 18:23:19.916 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:23:24.992 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:23:25.151 1 [info] <0.31184.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:23:25.152 1 [info] <0.31184.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.31183.0>,scheme =>
```



```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:23:25.300 1 [error]
<0.31183.0>@http2_client:handle_settings:822 gen_server <0.31183.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:23:25.301 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31184.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:23:25.301 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:23:25.302 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:23:25.302 1 [error]
<0.31183.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31183.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:23:25.302 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 18:23:25.303 1 [error] <0.31184.0>@Undefined:Undefined:Undefined
gen_server <0.31184.0> terminated with reason: connection_down
2022-06-27 18:23:25.304 1 [error] <0.31184.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31184.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:23:25.304 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31183.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4823>,socket_mon =>
#Ref<0.155928093.3973578754.7951>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31184.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 18:23:25.305 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31184.0>,connection_down}
2022-06-27 18:23:30.062 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:23:35.305 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
```

```
{gateway_validators_req_v1_pb,1}
2022-06-27 18:23:35.396 1 [info] <0.31187.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:23:35.397 1 [info] <0.31187.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.31186.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:23:35.481 1 [error] <0.31186.0>@http2_client:handle_settings:822
gen_server <0.31186.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:23:35.482 1 [error]
<0.31186.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31186.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:23:35.483 1 [error] <0.31187.0>@Undefined:Undefined:Undefined
gen_server <0.31187.0> terminated with reason: connection_down
2022-06-27 18:23:35.483 1 [error] <0.31187.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31187.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:23:35.484 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31187.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:23:35.484 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:23:35.485 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:23:35.485 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:23:35.486 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31186.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4824>,socket_mon =>
#Ref<0.155928093.3973578754.7985>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31187.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}]
2022-06-27 18:23:35.487 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31187.0>,connection_down}
```

```
2022-06-27 18:23:36.503 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:23:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:23:36.503 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:23:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:23:36.504 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4713,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:23:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:23:40.199 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:23:45.487 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:23:45.565 1 [info] <0.31190.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:23:45.566 1 [info] <0.31190.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.31189.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,grpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:23:45.641 1 [error] <0.31189.0>@http2_client:handle_settings:822
gen_server <0.31189.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:23:45.643 1 [error]
<0.31189.0>@http2_client:handle_settings:822 CRASH REPORT Process
```

```
<0.31189.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:23:45.643 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31190.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:23:45.644 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:23:45.644 1 [error] <0.31190.0>@Undefined:Undefined:Undefined
gen_server <0.31190.0> terminated with reason: connection_down
2022-06-27 18:23:45.645 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:23:45.645 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:23:45.645 1 [error] <0.31190.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31190.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:23:45.647 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31189.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4825>,socket_mon =>
#Ref<0.155928093.3974103041.23274>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31190.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 18:23:45.648 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31190.0>,connection_down}
2022-06-27 18:23:50.338 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:23:55.648 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:23:55.926 1 [info] <0.31193.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:23:55.928 1 [info] <0.31193.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.31192.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:23:56.199 1 [error] <0.31192.0>@http2_client:handle_settings:822
gen_server <0.31192.0> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:23:56.200 1 [error]
<0.31192.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31192.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:23:56.200 1 [error] <0.31193.0>@Undefined:Undefined:Undefined
gen_server <0.31193.0> terminated with reason: connection_down
2022-06-27 18:23:56.200 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31193.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:23:56.201 1 [error] <0.31193.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31193.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:23:56.201 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:23:56.201 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:23:56.202 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:23:56.203 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31192.0>,{function_clause,
```



```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"13.125.32.225">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4826>,socket_mon =>
#Ref<0.155928093.3973054468.200346>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31193.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:23:56.203 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31193.0>,connection_down}
2022-06-27 18:24:00.483 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:24:06.204 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:24:06.482 1 [info] <0.31201.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:24:06.484 1 [info] <0.31201.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.31200.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:24:06.514 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:24:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:24:06.515 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:24:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:24:06.517 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4717,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:24:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:24:06.753 1 [error]
<0.31200.0>@http2_client:handle_settings:822 gen_server <0.31200.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:24:06.755 1 [error]
<0.31200.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31200.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:24:06.756 1 [error] <0.31201.0>@Undefined:Undefined:Undefined
gen_server <0.31201.0> terminated with reason: connection_down
2022-06-27 18:24:06.756 1 [error] <0.31201.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31201.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:24:06.757 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31201.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:24:06.757 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:24:06.759 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:24:06.759 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:24:06.760 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31200.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.39.165.144">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4827>,socket_mon =>
#Ref<0.155928093.3973054468.200374>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31201.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:24:06.761 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31201.0>,connection_down}
2022-06-27 18:24:10.635 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:24:16.761 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:24:16.987 1 [info] <0.31205.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:24:16.988 1 [info] <0.31205.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.31204.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:24:17.207 1 [error] <0.31204.0>@http2_client:handle_settings:822
gen_server <0.31204.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:24:17.209 1 [error] <0.31204.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31204.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:24:17.210 1 [error] <0.31205.0>@Undefined:Undefined:Undefined
gen_server <0.31205.0> terminated with reason: connection_down
2022-06-27 18:24:17.210 1 [error] <0.31205.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31205.0> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:24:17.211 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31205.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:24:17.211 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:24:17.212 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:24:17.212 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:24:17.213 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31204.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4828>,socket_mon =>
```

```
#Ref<0.155928093.3973578754.8142>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31205.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 18:24:17.214 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31205.0>,connection_down}
2022-06-27 18:24:20.779 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:24:27.215 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:24:27.488 1 [info] <0.31221.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:24:27.489 1 [info] <0.31221.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.31220.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:24:27.758 1 [error] <0.31220.0>@http2_client:handle_settings:822
gen_server <0.31220.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:24:27.759 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31221.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl"},{line,418}}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}}},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:24:27.759 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:24:27.761 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:24:27.761 1 [error] <0.31220.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31220.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:24:27.761 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:24:27.762 1 [error] <0.31221.0>@Undefined:Undefined:Undefined
gen_server <0.31221.0> terminated with reason: connection_down
2022-06-27 18:24:27.762 1 [error] <0.31221.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31221.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:24:27.765 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31220.0>,{function_clause,
[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],}],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.209.94.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4829>,socket_mon =>
#Ref<0.155928093.3973578754.8210>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31221.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:24:27.765 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31221.0>,connection_down} 2022-06-27
18:24:30.919 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 18:24:36.511 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:24:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:24:36.512 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:24:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:24:36.514 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4721,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:24:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:24:37.764 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:24:38.040 1 [info] <0.31230.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```



```
2022-06-27 18:24:38.043 1 [info] <0.31230.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.31229.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:24:38.305 1 [error]
<0.31229.0>@http2_client:handle_settings:822 gen_server <0.31229.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:24:38.306 1 [error]
<0.31229.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31229.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:24:38.308 1 [error] <0.31230.0>@Undefined:Undefined:Undefined
gen_server <0.31230.0> terminated with reason: connection_down
2022-06-27 18:24:38.308 1 [error] <0.31230.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31230.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:24:38.308 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31230.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

2022-06-27 18:24:38.309 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}  
2022-06-27 18:24:38.309 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 18:24:38.309 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 18:24:38.311 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31229.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {56, {<<":authority">>,<<"54.207.131.103">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "54.207.131.103",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4830>,socket\_mon => #Ref<0.155928093.3973578754.8303>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.31230.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}},[{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 18:24:38.311 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31230.0>,connection\_down}  
2022-06-27 18:24:41.059 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from

12291671073248440251 on 56833

2022-06-27 18:24:48.312 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.13.130.184":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 18:24:48.478 1 [info] <0.31233.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 18:24:48.479 1 [info] <0.31233.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"3.13.130.184">>,http\_connection => <0.31232.0>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}},name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 18:24:48.637 1 [error]

<0.31232.0>@http2\_client:handle\_settings:822 gen\_server <0.31232.0>

terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 18:24:48.638 1 [error]

<0.31232.0>@http2\_client:handle\_settings:822 CRASH REPORT Process

<0.31232.0> with 0 neighbours crashed with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 18:24:48.639 1 [error] <0.31233.0>@Undefined:Undefined:Undefined

gen\_server <0.31233.0> terminated with reason: connection\_down

2022-06-27 18:24:48.639 1 [error] <0.31233.0>@Undefined:Undefined:Undefined

CRASH REPORT Process <0.31233.0> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 18:24:48.640 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.31233.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:24:48.640 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:24:48.640 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:24:48.640 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:24:48.642 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31232.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4831>,socket_mon =>
#Ref<0.155928093.3973578754.8341>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31233.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 18:24:48.642 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31233.0>,connection_down}
2022-06-27 18:24:51.212 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:24:58.643 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:24:58.803 1 [info] <0.31236.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:24:58.804 1 [info] <0.31236.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.31235.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:24:58.957 1 [error]
<0.31235.0>@http2_client:handle_settings:822 gen_server <0.31235.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:24:58.959 1 [error]
<0.31235.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31235.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:24:58.959 1 [error] <0.31236.0>@Undefined:Undefined:Undefined
gen_server <0.31236.0> terminated with reason: connection_down
2022-06-27 18:24:58.959 1 [error] <0.31236.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31236.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:24:58.960 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31236.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:24:58.960 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:24:58.961 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:24:58.961 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:24:58.962 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31235.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4832>,socket_mon =>
#Ref<0.155928093.3973578754.8388>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
```

```
<0.31236.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 18:24:58.963 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31236.0>,connection_down}
2022-06-27 18:25:01.359 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:25:06.512 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:25:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:25:06.512 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:25:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:25:06.513 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4725,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:25:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:25:08.963 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:25:09.300 1 [info] <0.31242.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:25:09.303 1 [info] <0.31242.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.31241.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:25:09.627 1 [error] <0.31241.0>@http2_client:handle_settings:822
gen_server <0.31241.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:25:09.629 1 [error]
<0.31241.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31241.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:25:09.630 1 [error] <0.31242.0>@Undefined:Undefined:Undefined
gen_server <0.31242.0> terminated with reason: connection_down
2022-06-27 18:25:09.631 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31242.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:25:09.632 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:25:09.633 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:25:09.633 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```



```
2022-06-27 18:25:09.631 1 [error] <0.31242.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31242.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:25:09.637 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31241.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.211.55.217">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4833>,socket_mon =>
#Ref<0.155928093.3973578754.8427>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31242.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:25:09.641 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31242.0>,connection_down}
2022-06-27 18:25:11.515 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:25:19.635 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:25:19.727 1 [info] <0.31247.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 18:25:19.728 1 [info] <0.31247.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.31246.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:25:19.811 1 [error] <0.31246.0>@http2_client:handle_settings:822
gen_server <0.31246.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:25:19.811 1 [error] <0.31246.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31246.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:25:19.812 1 [error] <0.31247.0>@Undefined:Undefined:Undefined
gen_server <0.31247.0> terminated with reason: connection_down
2022-06-27 18:25:19.813 1 [error] <0.31247.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31247.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:25:19.814 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31247.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:25:19.814 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 18:25:19.814 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 18:25:19.815 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:25:19.816 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31246.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,  
{<<":authority">>,<<"52.210.14.128">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "52.210.14.128",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4834>,socket\_mon =>  
#Ref<0.155928093.3973578754.8482>,state => open,stream\_count => 1,streams  
=> [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner =>  
<0.31247.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}]}}  
2022-06-27 18:25:19.816 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31247.0>,connection\_down}  
2022-06-27 18:25:21.662 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:25:29.817 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:25:30.046 1 [info] <0.31263.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:25:30.047 1 [info] <0.31263.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2_client,host => <<"35.82.239.134">>,http_connection => <0.31262.0>,scheme => <<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input => gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name => validators,opts => [],output => gateway_resp_v1_pb,output_stream => false,package => [],queue => {[[],[]]},response_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod: miner_poc_grpc_client_handler
2022-06-27 18:25:30.527 1 [error]
<0.31262.0>@http2_client:handle_settings:822 gen_server <0.31262.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:25:30.528 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down, {gen_server,call,[<0.31263.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3, [{file,"gen_server.erl"},{line,247}]}, {grpc_client_stream_custom,process_response,2, [{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6, [{file,"grpc_client_custom.erl"},{line,278}]}, {miner_poc_grpc_client_statem,send_grpc_unary_req,4, [{file,"miner_poc_grpc_client_statem.erl"},{line,721}]}, {miner_poc_grpc_client_statem,find_validator,0, [{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}, {miner_poc_grpc_client_statem,setup,3, [{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}, {gen_statem,loop_state_callback,11, [{file,"gen_statem.erl"},{line,1203}]}, {proc_lib,init_p_do_apply,3, [{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:25:30.529 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New Connection, send unary result: {error,#{error_type => client,status_message => <<"stream create failed">>}}
2022-06-27 18:25:30.529 1 [error]
<0.31262.0>@http2_client:handle_settings:822 CRASH REPORT Process <0.31262.0> with 0 neighbours crashed with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:25:30.529 1 [error] <0.31263.0>@Undefined:Undefined:Undefined
gen_server <0.31263.0> terminated with reason: connection_down
2022-06-27 18:25:30.529 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:25:30.530 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:25:30.530 1 [error] <0.31263.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31263.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:25:30.532 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31262.0>,{function_clause,
[{'http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},]}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4835>,socket_mon =>
#Ref<0.155928093.3973578754.8539>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31263.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 18:25:30.532 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31263.0>,connection\_down}  
2022-06-27 18:25:31.812 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:25:36.510 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:25:36 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 18:25:36.511 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:25:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 18:25:36.512 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4729,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:25:36 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 18:25:40.532 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.132.190.192":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:25:40.699 1 [info] <0.31274.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 18:25:40.700 1 [info] <0.31274.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"3.132.190.192">>,http\_connection => <0.31273.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[ ]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 18:25:40.864 1 [error]  
<0.31273.0>@http2\_client:handle\_settings:822 gen\_server <0.31273.0>  
terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

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<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:25:40.867 1 [error]
<0.31273.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31273.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:25:40.867 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31274.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:25:40.867 1 [error] <0.31274.0>@Undefined:Undefined:Undefined
gen_server <0.31274.0> terminated with reason: connection_down 2022-06-27
18:25:40.867 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:25:40.868 1 [error] <0.31274.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31274.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:25:40.869 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:25:40.869 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:25:40.870 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31273.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4836>,socket_mon =>
#Ref<0.155928093.3973578754.8657>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31274.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 18:25:40.871 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31274.0>,connection_down}
2022-06-27 18:25:41.956 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:25:50.871 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:25:51.152 1 [info] <0.31277.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:25:51.154 1 [info] <0.31277.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.31276.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```



```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:25:51.422 1 [error] <0.31276.0>@http2_client:handle_settings:822
gen_server <0.31276.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:25:51.423 1 [error] <0.31276.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31276.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:25:51.425 1 [error] <0.31277.0>@Undefined:Undefined:Undefined
gen_server <0.31277.0> terminated with reason: connection_down
2022-06-27 18:25:51.425 1 [error] <0.31277.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31277.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:25:51.426 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31277.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:25:51.426 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:25:51.426 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:25:51.427 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

2022-06-27 18:25:51.428 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31276.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4837>,socket_mon =>
#Ref<0.155928093.3973578754.8709>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31277.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 18:25:51.428 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31277.0>,connection_down} 2022-06-27
18:25:52.112 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
```

```
2022-06-27 18:25:52.796 1 [info] <0.1636.0>@libp2p_peerbook:notify_peers:
{726,5} gossiping out 1 notify peers
```

2022-06-27 18:26:01.429 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
```

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 18:26:01.702 1 [info] <0.31282.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 18:26:01.704 1 [info] <0.31282.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.31281.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:26:01.973 1 [error] <0.31281.0>@http2_client:handle_settings:822
gen_server <0.31281.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:26:01.975 1 [error] <0.31281.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31281.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:26:01.975 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31282.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:26:01.976 1 [error] <0.31282.0>@Undefined:Undefined:Undefined
gen_server <0.31282.0> terminated with reason: connection_down
2022-06-27 18:26:01.975 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:26:01.976 1 [error] <0.31282.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31282.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

2022-06-27 18:26:01.976 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 18:26:01.977 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:26:01.978 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31281.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{56, {<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "54.207.131.103",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4838>,socket\_mon => #Ref<0.155928093.3973578754.8969>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.31282.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 18:26:01.979 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31282.0>,connection\_down}

2022-06-27 18:26:02.252 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:26:06.518 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>

```
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:26:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:26:06.519 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:26:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:26:06.520 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4733,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:26:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:26:11.978 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:26:12.252 1 [info] <0.31285.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:26:12.254 1 [info] <0.31285.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.31284.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:26:12.395 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:26:12.517 1 [error] <0.31284.0>@http2_client:handle_settings:822
gen_server <0.31284.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:26:12.518 1 [error] <0.31284.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31284.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 18:26:12.519 1 [error] <0.31285.0>@Undefined:Undefined:Undefined
gen_server <0.31285.0> terminated with reason: connection_down
2022-06-27 18:26:12.520 1 [error] <0.31285.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31285.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:26:12.521 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31285.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:26:12.521 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:26:12.522 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:26:12.522 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:26:12.523 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31284.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.39.165.144">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4839>,socket_mon =>
#Ref<0.155928093.3973578754.9036>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31285.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:26:12.523 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31285.0>,connection_down}
2022-06-27 18:26:22.525 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:26:22.549 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:26:22.752 1 [info] <0.31288.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:26:22.754 1 [info] <0.31288.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.31287.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:26:22.976 1 [error] <0.31287.0>@http2_client:handle_settings:822
gen_server <0.31287.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 18:26:22.977 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.31288.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]}

2022-06-27 18:26:22.978 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 18:26:22.978 1 [error] <0.31287.0>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.31287.0> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 18:26:22.979 1 [error] <0.31288.0>@Undefined:Undefined:Undefined  
gen\_server <0.31288.0> terminated with reason: connection\_down

2022-06-27 18:26:22.979 1 [error] <0.31288.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.31288.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 18:26:22.980 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 18:26:22.980 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 18:26:22.983 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31287.0>,{function\_clause,  
[{"http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>



```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4840>,socket_mon =>
#Ref<0.155928093.3973054468.200912>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31288.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:26:22.983 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31288.0>,connection_down}
2022-06-27 18:26:32.693 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:26:32.983 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:26:33.071 1 [info] <0.31291.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:26:33.072 1 [info] <0.31291.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.31290.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:26:33.155 1 [error]
```

```
<0.31290.0>@http2_client:handle_settings:822 gen_server <0.31290.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:26:33.156 1 [error]
<0.31290.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31290.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:26:33.157 1 [error] <0.31291.0>@Undefined:Undefined:Undefined
gen_server <0.31291.0> terminated with reason: connection_down
2022-06-27 18:26:33.157 1 [error] <0.31291.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31291.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:26:33.157 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31291.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:26:33.158 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:26:33.158 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:26:33.158 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:26:33.160 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31290.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},]}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4841>,socket_mon =>
#Ref<0.155928093.3973054468.200937>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31291.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 18:26:33.160 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31291.0>,connection_down}
2022-06-27 18:26:36.516 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:26:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:26:36.517 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:26:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:26:36.518 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=4737,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:26:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:26:38.175 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11JuzcTguB75zuCLCN3wadBfHPiwhpBeSFAN4gjmrPeXe4YF3mJ" informed us of
our observed address "/ip4/80.77.186.186/tcp/49564"
2022-06-27 18:26:42.853 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:26:43.161 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:26:43.400 1 [info] <0.31310.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:26:43.402 1 [info] <0.31310.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.31309.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:26:43.632 1 [error]
<0.31309.0>@http2_client:handle_settings:822 gen_server <0.31309.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:26:43.634 1 [error]
<0.31309.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31309.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:26:43.636 1 [error] <0.31310.0>@Undefined:Undefined:Undefined
gen_server <0.31310.0> terminated with reason: connection_down
2022-06-27 18:26:43.637 1 [error] <0.31310.0>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.31310.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:26:43.638 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.31310.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 18:26:43.639 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 18:26:43.640 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 18:26:43.640 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:26:43.643 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31309.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[],},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "13.215.75.202",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

```
16384},server_window => 65528,socket => #Port<0.4847>,socket_mon =>
#Ref<0.155928093.3973578754.9221>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31310.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 18:26:43.644 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31310.0>,connection_down}
2022-06-27 18:26:52.999 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:26:53.643 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:26:53.913 1 [info] <0.31318.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:26:53.916 1 [info] <0.31318.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.31317.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:26:54.178 1 [error] <0.31317.0>@http2_client:handle_settings:822
gen_server <0.31317.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:26:54.179 1 [error] <0.31317.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31317.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 18:26:54.180 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31318.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:26:54.180 1 [error] <0.31318.0>@Undefined:Undefined:Undefined
gen_server <0.31318.0> terminated with reason: connection_down
2022-06-27 18:26:54.180 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:26:54.181 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:26:54.181 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:26:54.180 1 [error] <0.31318.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31318.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:26:54.182 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31317.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
```

```
{<<":authority">>,<<"3.39.165.144">>}}{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4848>,socket_mon =>
#Ref<0.155928093.3973578754.9281>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31318.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}
2022-06-27 18:26:54.183 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31318.0>,connection_down}
2022-06-27 18:26:57.864 1 [warning]
<0.1639.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
11yngEw1wwArMQsqTLRxcMphziTTk4TbZK2vLx4NM88njF1vNsi": {exit,{normal,
{gen_server,call,[<0.31141.0>,open]}}}
2022-06-27 18:27:03.159 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:27:04.184 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:27:04.423 1 [info] <0.31352.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:27:04.424 1 [info] <0.31352.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.31351.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:27:04.657 1 [error] <0.31351.0>@http2_client:handle_settings:822
```



```
gen_server <0.31351.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:27:04.659 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31352.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:27:04.659 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:27:04.660 1 [error]
<0.31351.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31351.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:27:04.661 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:27:04.661 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:27:04.661 1 [error] <0.31352.0>@Undefined:Undefined:Undefined
gen_server <0.31352.0> terminated with reason: connection_down
2022-06-27 18:27:04.662 1 [error] <0.31352.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31352.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:27:04.664 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.31351.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4852>,socket_mon =>
#Ref<0.155928093.3973578754.9387>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31352.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}]}
2022-06-27 18:27:04.665 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31352.0>,connection_down}
2022-06-27 18:27:06.513 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:27:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:27:06.514 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:27:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:27:06.515 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4741,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
```

```
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:27:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:27:13.303 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:27:14.664 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:27:14.898 1 [info] <0.31355.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:27:14.899 1 [info] <0.31355.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.31354.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:27:15.128 1 [error] <0.31354.0>@http2_client:handle_settings:822
gen_server <0.31354.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:27:15.130 1 [error] <0.31354.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31354.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:27:15.130 1 [error] <0.31355.0>@Undefined:Undefined:Undefined
gen_server <0.31355.0> terminated with reason: connection_down
2022-06-27 18:27:15.131 1 [error] <0.31355.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31355.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:27:15.131 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31355.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 18:27:15.131 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:27:15.132 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:27:15.132 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:27:15.133 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31354.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4853>,socket_mon =>
#Ref<0.155928093.3973578754.9464>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31355.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:27:15.134 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31355.0>,connection_down}
2022-06-27 18:27:21.661 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1643.0>
2022-06-27 18:27:23.124 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112sjRuzCLjCM8oFzXr7h59fBd6Zeh27pjz3uz7F4ddPGqWBS4Zn" informed us of
our observed address "/ip4/80.77.186.186/tcp/17613"
2022-06-27 18:27:23.449 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:27:25.135 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:27:25.360 1 [info] <0.31377.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:27:25.363 1 [info] <0.31377.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.31376.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:27:25.568 1 [error]
<0.31376.0>@http2_client:handle_settings:822 gen_server <0.31376.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:27:25.572 1 [error] <0.31376.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31376.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:27:25.572 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31377.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:27:25.572 1 [error] <0.31377.0>@Undefined:Undefined:Undefined
gen_server <0.31377.0> terminated with reason: connection_down
2022-06-27 18:27:25.572 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:27:25.573 1 [error] <0.31377.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31377.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:27:25.575 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:27:25.575 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:27:25.578 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31376.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4859>,socket_mon =>
#Ref<0.155928093.3973578754.9544>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31377.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:27:25.579 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31377.0>,connection_down}
2022-06-27 18:27:33.582 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:27:35.577 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:27:36.522 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:27:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:27:36.522 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:27:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:27:36.524 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4745,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:27:36 GMT">>,<<"txnb">> =>
```

```
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:27:43.722 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:27:53.870 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:28:04.015 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:28:05.582 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}}]
2022-06-27 18:28:05.582 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:28:05.584 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31380.0>,timeout}
2022-06-27 18:28:05.584 1 [error] <0.31380.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31380.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 18:28:06.520 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:28:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:28:06.521 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:28:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:28:06.522 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4749,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
```



```
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:28:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:28:14.169 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:28:15.585 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:28:15.656 1 [info] <0.31415.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:28:15.657 1 [info] <0.31415.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.31414.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:28:15.725 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31415.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:28:15.725 1 [error] <0.31414.0>@http2_client:handle_settings:822
gen_server <0.31414.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:28:15.725 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 18:28:15.726 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 18:28:15.727 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:28:15.727 1 [error] <0.31414.0>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.31414.0> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 18:28:15.728 1 [error] <0.31415.0>@Undefined:Undefined:Undefined gen\_server <0.31415.0> terminated with reason: connection\_down

2022-06-27 18:28:15.728 1 [error] <0.31415.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.31415.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 18:28:15.730 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31414.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {54, {<<":authority">>,<<"3.72.143.228">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.72.143.228",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4862>,socket\_mon => #Ref<0.155928093.3973578754.10332>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.31415.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}]},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:28:15.731 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31415.0>,connection_down}
2022-06-27 18:28:24.305 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:28:25.729 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:28:25.811 1 [info] <0.31419.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:28:25.812 1 [info] <0.31419.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.31418.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:28:25.888 1 [error]
<0.31418.0>@http2_client:handle_settings:822 gen_server <0.31418.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:28:25.890 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31419.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:28:25.890 1 [error]
<0.31418.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31418.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:28:25.890 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:28:25.891 1 [error] <0.31419.0>@Undefined:Undefined:Undefined
gen_server <0.31419.0> terminated with reason: connection_down
2022-06-27 18:28:25.891 1 [error] <0.31419.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31419.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:28:25.891 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:28:25.892 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:28:25.893 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31418.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},server_window => 65528,socket => #Port<0.4863>,socket_mon =>
#Ref<0.155928093.3973054468.201522>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31419.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 18:28:25.894 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31419.0>,connection_down}
2022-06-27 18:28:34.449 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:28:35.893 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:28:36.132 1 [info] <0.31426.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:28:36.135 1 [info] <0.31426.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.31425.0>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:28:36.368 1 [error]
<0.31425.0>@http2_client:handle_settings:822 gen_server <0.31425.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:28:36.369 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31426.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]],
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:28:36.369 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:28:36.370 1 [error]
<0.31425.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31425.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:28:36.370 1 [error] <0.31426.0>@Undefined:Undefined:Undefined
gen_server <0.31426.0> terminated with reason: connection_down
2022-06-27 18:28:36.371 1 [error] <0.31426.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31426.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:28:36.372 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:28:36.372 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:28:36.373 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31425.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4864>,socket_mon =>
#Ref<0.155928093.3973578754.10654>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31426.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 18:28:36.374 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31426.0>,connection_down}
2022-06-27 18:28:36.515 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:28:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:28:36.516 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:28:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:28:36.517 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4753,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:28:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:28:44.599 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:28:46.375 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

```
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:28:46.489 1 [info] <0.31430.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:28:46.490 1 [info] <0.31430.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.31429.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:28:46.606 1 [error]
<0.31429.0>@http2_client:handle_settings:822 gen_server <0.31429.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:28:46.608 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31430.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:28:46.608 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:28:46.608 1 [error]
<0.31429.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31429.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
```



```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:28:46.609 1 [error] <0.31430.0>@Undefined:Undefined:Undefined
gen_server <0.31430.0> terminated with reason: connection_down
2022-06-27 18:28:46.609 1 [error] <0.31430.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31430.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:28:46.610 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:28:46.610 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:28:46.611 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31429.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4865>,socket_mon =>
#Ref<0.155928093.3973578754.10834>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31430.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 18:28:46.612 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31430.0>,connection_down}
2022-06-27 18:28:54.753 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:28:56.613 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:28:56.884 1 [info] <0.31437.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:28:56.886 1 [info] <0.31437.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.31436.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:28:57.150 1 [error] <0.31436.0>@http2_client:handle_settings:822
gen_server <0.31436.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:28:57.152 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31437.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:28:57.152 1 [error] <0.31436.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31436.0> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:28:57.152 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:28:57.153 1 [error] <0.31437.0>@Undefined:Undefined:Undefined
gen_server <0.31437.0> terminated with reason: connection_down
2022-06-27 18:28:57.153 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:28:57.153 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:28:57.153 1 [error] <0.31437.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31437.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:28:57.155 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31436.0>,{function_clause,
[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4866>,socket_mon =>
#Ref<0.155928093.3973054468.201621>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31437.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:28:57.156 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31437.0>,connection_down}
2022-06-27 18:29:04.892 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:29:06.525 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:29:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:29:06.525 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:29:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:29:06.527 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4757,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:29:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:29:07.156 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:29:07.324 1 [info] <0.31443.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:29:07.325 1 [info] <0.31443.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.31442.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:29:08.889 1 [error]
```

```
<0.31442.0>@http2_client:handle_settings:822 gen_server <0.31442.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:29:08.893 1 [error]
<0.31442.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31442.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:29:08.893 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31443.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:29:08.894 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:29:08.895 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:29:08.895 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:29:08.896 1 [error] <0.31443.0>@Undefined:Undefined:Undefined
gen_server <0.31443.0> terminated with reason: connection_down
2022-06-27 18:29:08.897 1 [error] <0.31443.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31443.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:29:08.898 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31442.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4867>,socket_mon =>
#Ref<0.155928093.3973578754.11095>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31443.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 18:29:08.899 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31443.0>,connection_down}
2022-06-27 18:29:15.043 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:29:15.232 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 5,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAELxmbSAFmLADJupcrCzK2h3XN+I2zLUPQR1uUKFtIQXqYevLAGulxjN
P5we2F1+A==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
-230,<<"freq">> => 867.5,<<"jver">> => 1,<<"lsnr">> => 2.2,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -103,<<"rssiS">>
=> -105,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 1711220077}}] from
12291671073248440251 on 35152
2022-06-27 18:29:15.267 1 [info] <0.1662.0>@blockchain_worker:start_sync:
```

```
{888,13} new block sync starting with Pid: <0.31457.0>, Ref:
#Ref<0.155928093.3974103041.29123>, Peer: "/p2p/
112RcDX7Yjr55aSugk7NhD6hvQmJD7gTTCY9CoLXQtdvPkLwQEO3"
2022-06-27 18:29:16.665 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112RcDX7Yjr55aSugk7NhD6hvQmJD7gTTCY9CoLXQtdvPkLwQEO3" informed us
of our observed address "/ip4/80.77.186.186/tcp/34836"
2022-06-27 18:29:18.898 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:29:19.173 1 [info] <0.31474.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:29:19.174 1 [info] <0.31474.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.31473.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:29:19.445 1 [error]
<0.31473.0>@http2_client:handle_settings:822 gen_server <0.31473.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:29:19.445 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31474.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 18:29:19.446 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:29:19.446 1 [error]
<0.31473.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31473.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:29:19.446 1 [error] <0.31474.0>@Undefined:Undefined:Undefined
gen_server <0.31474.0> terminated with reason: connection_down
2022-06-27 18:29:19.446 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:29:19.446 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:29:19.446 1 [error] <0.31474.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31474.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:29:19.448 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31473.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4873>,socket_mon =>
#Ref<0.155928093.3974103041.29351>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31474.0>,server_window => 65528,state =>
```



```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:29:19.448 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31474.0>,connection_down}
2022-06-27 18:29:25.195 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:29:29.449 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:29:29.529 1 [info] <0.31479.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:29:29.530 1 [info] <0.31479.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.31478.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:29:29.610 1 [error]
<0.31478.0>@http2_client:handle_settings:822 gen_server <0.31478.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:29:29.611 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31479.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]}],
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 18:29:29.612 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:29:29.611 1 [error] <0.31478.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31478.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:29:29.612 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:29:29.612 1 [error] <0.31479.0>@Undefined:Undefined:Undefined
gen_server <0.31479.0> terminated with reason: connection_down
2022-06-27 18:29:29.612 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:29:29.612 1 [error] <0.31479.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31479.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:29:29.614 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31478.0>,{function_clause,
[{{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4874>,socket_mon =>
#Ref<0.155928093.3973578754.11209>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31479.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 18:29:29.615 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31479.0>,connection_down}
2022-06-27 18:29:35.355 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:29:36.520 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:29:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:29:36.521 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:29:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:29:36.522 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4761,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:29:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:29:39.615 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:29:39.941 1 [info] <0.31486.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:29:39.942 1 [info] <0.31486.0>@grpc_client_stream_custom:init:
```

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.31485.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:29:40.265 1 [error]
<0.31485.0>@http2_client:handle_settings:822 gen_server <0.31485.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:29:40.267 1 [error]
<0.31485.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31485.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:29:40.268 1 [error] <0.31486.0>@Undefined:Undefined:Undefined
gen_server <0.31486.0> terminated with reason: connection_down
2022-06-27 18:29:40.269 1 [error] <0.31486.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31486.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:29:40.269 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31486.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:29:40.270 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:29:40.271 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:29:40.271 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:29:40.275 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31485.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.211.55.217">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4875>,socket_mon =>
#Ref<0.155928093.3973578754.11258>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31486.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}]
2022-06-27 18:29:40.276 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31486.0>,connection_down}
2022-06-27 18:29:45.502 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 18:29:50.273 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:29:50.355 1 [info] <0.31490.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:29:50.356 1 [info] <0.31490.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.31489.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:29:50.430 1 [error]
<0.31489.0>@http2_client:handle_settings:822 gen_server <0.31489.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:29:50.432 1 [error]
<0.31489.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31489.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:29:50.433 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31490.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 18:29:50.433 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:29:50.433 1 [error] <0.31490.0>@Undefined:Undefined:Undefined
gen_server <0.31490.0> terminated with reason: connection_down
2022-06-27 18:29:50.433 1 [error] <0.31490.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31490.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:29:50.434 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:29:50.434 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:29:50.435 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31489.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4876>,socket_mon =>
#Ref<0.155928093.3973578754.11323>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31490.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 18:29:50.436 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31490.0>,connection_down}
2022-06-27 18:29:55.653 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:30:00.437 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:30:00.710 1 [info] <0.31497.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:30:00.713 1 [info] <0.31497.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.31496.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:30:00.976 1 [error]
<0.31496.0>@http2_client:handle_settings:822 gen_server <0.31496.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:30:00.978 1 [error]
<0.31496.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31496.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:30:00.978 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31497.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```



```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:30:00.978 1 [error] <0.31497.0>@Undefined:Undefined:Undefined
gen_server <0.31497.0> terminated with reason: connection_down
2022-06-27 18:30:00.979 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:30:00.979 1 [error] <0.31497.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31497.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:30:00.979 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:30:00.979 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:30:00.980 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31496.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.39.165.144">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4877>,socket_mon =>
#Ref<0.155928093.3973578754.11389>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31497.0>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:30:00.981 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31497.0>,connection_down}
2022-06-27 18:30:05.799 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:30:06.524 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:30:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:30:06.524 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:30:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:30:06.525 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4765,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:30:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:30:10.982 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:30:15.949 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:30:15.991 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 18:30:26.092 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:30:36.243 1 [info]
```

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<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:30:36.521 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:30:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:30:36.521 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:30:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:30:36.522 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4769,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:30:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:30:40.985 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}}]
2022-06-27 18:30:40.985 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:30:40.986 1 [error] <0.31501.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31501.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 18:30:40.986 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31501.0>,timeout}
2022-06-27 18:30:46.392 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:30:50.987 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
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unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:30:51.067 1 [info] <0.31522.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:30:51.069 1 [info] <0.31522.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.31521.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:30:51.143 1 [error] <0.31521.0>@http2_client:handle_settings:822
gen_server <0.31521.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:30:51.143 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31522.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:30:51.143 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:30:51.144 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:30:51.144 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
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validator failed: {error,req_failed}
2022-06-27 18:30:51.145 1 [error] <0.31521.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31521.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:30:51.145 1 [error] <0.31522.0>@Undefined:Undefined:Undefined
gen_server <0.31522.0> terminated with reason: connection_down
2022-06-27 18:30:51.145 1 [error] <0.31522.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31522.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:30:51.146 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31521.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4879>,socket_mon =>
#Ref<0.155928093.3973578754.11589>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31522.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 18:30:51.146 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31522.0>,connection_down}
```

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2022-06-27 18:30:56.532 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:31:01.147 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:31:01.230 1 [info] <0.31529.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:31:01.231 1 [info] <0.31529.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.31528.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:31:01.308 1 [error] <0.31528.0>@http2_client:handle_settings:822
gen_server <0.31528.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:31:01.311 1 [error] <0.31528.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31528.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:31:01.312 1 [error] <0.31529.0>@Undefined:Undefined:Undefined
gen_server <0.31529.0> terminated with reason: connection_down
2022-06-27 18:31:01.313 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31529.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:31:01.313 1 [error] <0.31529.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31529.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:31:01.313 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:31:01.315 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:31:01.316 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:31:01.319 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31528.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4880>,socket_mon =>
#Ref<0.155928093.3973578754.11687>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31529.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]]}
2022-06-27 18:31:01.319 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31529.0>,connection_down}
2022-06-27 18:31:06.530 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:31:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:31:06.531 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:31:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:31:06.532 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4772,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:31:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:31:06.675 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:31:11.318 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:31:11.405 1 [info] <0.31534.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:31:11.406 1 [info] <0.31534.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.31533.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:31:11.491 1 [error] <0.31533.0>@http2_client:handle_settings:822
gen_server <0.31533.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```



```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:31:11.493 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31534.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:31:11.494 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:31:11.495 1 [error] <0.31533.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31533.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:31:11.495 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:31:11.495 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:31:11.496 1 [error] <0.31534.0>@Undefined:Undefined:Undefined
gen_server <0.31534.0> terminated with reason: connection_down
2022-06-27 18:31:11.496 1 [error] <0.31534.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31534.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:31:11.499 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31533.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4881>,socket_mon =>
#Ref<0.155928093.3973578754.11833>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31534.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:31:11.500 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31534.0>,connection_down}
2022-06-27 18:31:16.812 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:31:21.498 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:31:21.762 1 [info] <0.31547.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:31:21.764 1 [info] <0.31547.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.31544.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

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miner_poc_grpc_client_handler
2022-06-27 18:31:22.025 1 [error]
<0.31544.0>@http2_client:handle_settings:822 gen_server <0.31544.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:31:22.026 1 [error]
<0.31544.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31544.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:31:22.027 1 [error] <0.31547.0>@Undefined:Undefined:Undefined
gen_server <0.31547.0> terminated with reason: connection_down
2022-06-27 18:31:22.027 1 [error] <0.31547.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31547.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:31:22.027 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31547.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:31:22.027 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:31:22.028 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:31:22.028 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
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validator failed: {error,req\_failed}  
2022-06-27 18:31:22.029 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31544.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,  
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "54.207.131.103",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4882>,socket\_mon =>  
#Ref<0.155928093.3973578754.11975>,state => open,stream\_count => 1,streams  
=> [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner =>  
<0.31547.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 18:31:22.030 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31547.0>,connection\_down}  
2022-06-27 18:31:26.966 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:31:32.031 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.24.161.210":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:31:32.364 1 [info] <0.31556.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 18:31:32.365 1 [info] <0.31556.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>

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none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.31555.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:31:32.692 1 [error]
<0.31555.0>@http2_client:handle_settings:822 gen_server <0.31555.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:31:32.694 1 [error]
<0.31555.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31555.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:31:32.694 1 [error] <0.31556.0>@Undefined:Undefined:Undefined
gen_server <0.31556.0> terminated with reason: connection_down
2022-06-27 18:31:32.695 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31556.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:31:32.695 1 [error] <0.31556.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31556.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:31:32.695 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

```
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:31:32.696 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:31:32.696 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:31:32.697 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31555.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4883>,socket_mon =>
#Ref<0.155928093.3974103041.31416>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31556.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 18:31:32.698 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31556.0>,connection_down}
2022-06-27 18:31:36.528 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 18:31:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:31:36.530 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:31:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:31:36.532 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4776,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:31:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:31:37.119 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:31:42.699 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:31:42.978 1 [info] <0.31560.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:31:42.980 1 [info] <0.31560.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.31559.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:31:43.253 1 [error]
<0.31559.0>@http2_client:handle_settings:822 gen_server <0.31559.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:31:43.255 1 [error]
<0.31559.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31559.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 18:31:43.258 1 [error] <0.31560.0>@Undefined:Undefined:Undefined
gen_server <0.31560.0> terminated with reason: connection_down
2022-06-27 18:31:43.258 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31560.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:31:43.258 1 [error] <0.31560.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31560.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:31:43.258 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:31:43.259 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:31:43.259 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:31:43.261 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31559.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.39.165.144">>}}},{63,{<<":path">>,<<"/helium.gateway/
```



```
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4884>,socket_mon =>
#Ref<0.155928093.3973578754.12313>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31560.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:31:43.261 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31560.0>,connection_down}
2022-06-27 18:31:47.266 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:31:53.262 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:31:53.428 1 [info] <0.31567.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:31:53.431 1 [info] <0.31567.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.31566.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:31:53.592 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31567.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl",{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl",{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl",{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl",{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl",{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl",{line,226}]]}
2022-06-27 18:31:53.592 1 [error]
<0.31566.0>@http2_client:handle_settings:822 gen_server <0.31566.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:31:53.592 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:31:53.593 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:31:53.594 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:31:53.594 1 [error]
<0.31566.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31566.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:31:53.595 1 [error] <0.31567.0>@Undefined:Undefined:Undefined
gen_server <0.31567.0> terminated with reason: connection_down
2022-06-27 18:31:53.596 1 [error] <0.31567.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31567.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:31:53.599 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31566.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4885>,socket_mon =>
#Ref<0.155928093.3973578754.12475>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31567.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 18:31:53.599 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31567.0>,connection_down}
2022-06-27 18:31:57.412 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:32:03.597 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:32:03.764 1 [info] <0.31571.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:32:03.766 1 [info] <0.31571.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.31570.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 18:32:03.923 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31571.0>,{rcv,10000},infinity]}}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:32:03.923 1 [error]
<0.31570.0>@http2_client:handle_settings:822 gen_server <0.31570.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:32:03.924 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:32:03.924 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:32:03.924 1 [error]
<0.31570.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31570.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:32:03.925 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:32:03.925 1 [error] <0.31571.0>@Undefined:Undefined:Undefined
gen_server <0.31571.0> terminated with reason: connection_down
2022-06-27 18:32:03.925 1 [error] <0.31571.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31571.0> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:32:03.927 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31570.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4886>,socket_mon =>
#Ref<0.155928093.3973578754.12570>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31571.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}]}
2022-06-27 18:32:03.928 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31571.0>,connection_down} 2022-06-27
18:32:06.524 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:32:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:32:06.524 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:32:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:32:06.526 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4780,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:32:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:32:07.562 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:32:13.927 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:32:14.008 1 [info] <0.31578.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:32:14.010 1 [info] <0.31578.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.31577.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:32:14.082 1 [error] <0.31577.0>@http2_client:handle_settings:822
gen_server <0.31577.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:32:14.083 1 [error] <0.31577.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31577.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:32:14.084 1 [error] <0.31578.0>@Undefined:Undefined:Undefined
gen_server <0.31578.0> terminated with reason: connection_down
2022-06-27 18:32:14.085 1 [error] <0.31578.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31578.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:32:14.085 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31578.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
{file,"gen_server.erl"},{line,247}}},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:32:14.085 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:32:14.086 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:32:14.086 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:32:14.087 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31577.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4887>,socket_mon =>
#Ref<0.155928093.3973578754.12683>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31578.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 18:32:14.088 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31578.0>,connection_down}
2022-06-27 18:32:17.709 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:32:21.662 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1640.0>
2022-06-27 18:32:24.089 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:32:24.323 1 [info] <0.31586.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:32:24.325 1 [info] <0.31586.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.31585.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:32:24.552 1 [error]
<0.31585.0>@http2_client:handle_settings:822 gen_server <0.31585.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:32:24.555 1 [error]
<0.31585.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31585.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```



```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 18:32:24.556 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31586.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:32:24.556 1 [error] <0.31586.0>@Undefined:Undefined:Undefined
gen_server <0.31586.0> terminated with reason: connection_down
2022-06-27 18:32:24.556 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:32:24.557 1 [error] <0.31586.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31586.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:32:24.557 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:32:24.558 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:32:24.562 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31585.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
```

```
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4888>,socket_mon =>
#Ref<0.155928093.3974103041.32074>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31586.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}
2022-06-27 18:32:24.563 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31586.0>,connection_down}
2022-06-27 18:32:27.866 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:32:34.561 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:32:34.799 1 [info] <0.31601.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:32:34.801 1 [info] <0.31601.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.31600.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:32:35.029 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31601.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl"},{line,418}}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]
2022-06-27 18:32:35.029 1 [error]
<0.31600.0>@http2_client:handle_settings:822 gen_server <0.31600.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:32:35.029 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:32:35.030 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:32:35.030 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:32:35.031 1 [error]
<0.31600.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31600.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:32:35.031 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31600.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4889>,socket_mon =>
#Ref<0.155928093.3973054468.202735>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31601.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 18:32:35.031 1 [error] <0.31601.0>@Undefined:Undefined:Undefined
gen_server <0.31601.0> terminated with reason: connection_down
2022-06-27 18:32:35.032 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31601.0>,connection_down}
2022-06-27 18:32:35.032 1 [error] <0.31601.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31601.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:32:36.524 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:32:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:32:36.525 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:32:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:32:36.526 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4784,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:32:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
```

```
2022-06-27 18:32:38.006 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:32:45.033 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:32:45.354 1 [info] <0.31606.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:32:45.357 1 [info] <0.31606.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.31604.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:32:45.647 1 [error]
<0.31604.0>@http2_client:handle_settings:822 gen_server <0.31604.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:32:45.650 1 [error]
<0.31604.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31604.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:32:45.651 1 [error] <0.31606.0>@Undefined:Undefined:Undefined
gen_server <0.31606.0> terminated with reason: connection_down
2022-06-27 18:32:45.652 1 [error] <0.31606.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31606.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:32:45.653 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31606.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

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[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 18:32:45.653 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:32:45.654 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:32:45.654 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:32:45.658 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31604.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{56,
{<<":authority">>,<<"54.207.131.103">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4890>,socket_mon =>
#Ref<0.155928093.3973578754.12893>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31606.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[[file,"http2_client.erl"],{line,822}]],
```

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{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:32:45.659 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31606.0>,connection_down}
2022-06-27 18:32:48.146 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:32:51.746 1 [warning]
<0.1640.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
112cQJzCH2MVZxVU3HuwNaRsNT5ZJ5fPnignAknBMknnuxvaBKXq": [{}"/
ip4/98.60.18.179/tcp/44158",timeout]}
2022-06-27 18:32:55.657 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:32:55.883 1 [info] <0.31614.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:32:55.883 1 [info] <0.31614.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.31613.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:32:56.125 1 [error] <0.31613.0>@http2_client:handle_settings:822
gen_server <0.31613.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:32:56.126 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31614.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

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{file,"miner_poc_grpc_client_statem.erl"},{line,721}}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 18:32:56.126 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:32:56.126 1 [error] <0.31613.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31613.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:32:56.127 1 [error] <0.31614.0>@Undefined:Undefined:Undefined
gen_server <0.31614.0> terminated with reason: connection_down
2022-06-27 18:32:56.127 1 [error] <0.31614.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31614.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:32:56.127 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:32:56.127 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:32:56.129 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31613.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```



```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4896>,socket_mon =>
#Ref<0.155928093.3973578754.12951>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31614.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:32:56.129 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31614.0>,connection_down}
2022-06-27 18:32:58.292 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:33:06.130 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:33:06.371 1 [info] <0.31617.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:33:06.373 1 [info] <0.31617.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.31616.0>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:33:06.529 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:33:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:33:06.530 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 18:33:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:33:06.531 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4788,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:33:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:33:06.603 1 [error]
<0.31616.0>@http2_client:handle_settings:822 gen_server <0.31616.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:33:06.605 1 [error]
<0.31616.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31616.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:33:06.605 1 [error] <0.31617.0>@Undefined:Undefined:Undefined
gen_server <0.31617.0> terminated with reason: connection_down
2022-06-27 18:33:06.606 1 [error] <0.31617.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31617.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:33:06.606 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31617.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:33:06.606 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

```
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:33:06.607 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:33:06.607 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:33:06.608 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31616.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"52.220.227.216">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4897>,socket_mon =>
#Ref<0.155928093.3973578754.13040>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31617.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}]}
2022-06-27 18:33:06.608 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31617.0>,connection_down} 2022-06-27
18:33:08.436 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 18:33:16.610 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

```
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:33:16.942 1 [info] <0.31620.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:33:16.944 1 [info] <0.31620.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.31619.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:33:17.266 1 [error] <0.31619.0>@http2_client:handle_settings:822
gen_server <0.31619.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:33:17.267 1 [error] <0.31619.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31619.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:33:17.267 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31620.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:33:17.268 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 18:33:17.268 1 [error] <0.31620.0>@Undefined:Undefined:Undefined
gen_server <0.31620.0> terminated with reason: connection_down
2022-06-27 18:33:17.268 1 [error] <0.31620.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31620.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:33:17.269 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:33:17.269 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:33:17.270 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31619.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4898>,socket_mon =>
#Ref<0.155928093.3973578754.13109>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31620.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 18:33:17.271 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31620.0>,connection_down}
```

2022-06-27 18:33:18.586 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:33:27.272 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.49.199.40":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 18:33:28.725 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:33:36.529 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:33:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 18:33:36.530 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:33:36 GMT">>,<<"txnb">> => 0}

2022-06-27 18:33:36.531 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4792,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:33:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 18:33:38.865 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:33:49.012 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:33:57.276 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}},  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}}]

2022-06-27 18:33:57.276 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:33:57.277 1 [error] <0.31623.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.31623.0> with 0 neighbours exited with reason:  
timeout in gen\_server:init\_it/6 line 407

2022-06-27 18:33:57.278 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31623.0>,timeout}

2022-06-27 18:33:59.146 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

2022-06-27 18:34:06.016 1 [notice]  
<0.31659.0>@libp2p\_multistream\_server:handle\_info:{108,13} Failed to  
handshake client "/ip4/192.168.5.233/tcp/49506": closed

2022-06-27 18:34:06.532 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:34:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152

2022-06-27 18:34:06.532 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:34:06 GMT">>,<<"txnb">> => 0}

2022-06-27 18:34:06.533 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4796,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:34:06 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}

2022-06-27 18:34:07.278 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.72.143.228":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 18:34:07.360 1 [info] <0.31662.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary

2022-06-27 18:34:07.361 1 [info] <0.31662.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"3.72.143.228">>,http\_connection => <0.31661.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}},name =>

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:34:07.440 1 [error]
<0.31661.0>@http2_client:handle_settings:822 gen_server <0.31661.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:34:07.444 1 [error]
<0.31661.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31661.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:34:07.444 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31662.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:34:07.444 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:34:07.445 1 [error] <0.31662.0>@Undefined:Undefined:Undefined
gen_server <0.31662.0> terminated with reason: connection_down
2022-06-27 18:34:07.445 1 [error] <0.31662.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31662.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:34:07.446 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```



client error response

2022-06-27 18:34:07.446 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:34:07.448 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31661.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}]}],host => "3.72.143.228",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4906>,socket\_mon => #Ref<0.155928093.3973578754.13519>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.31662.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}

2022-06-27 18:34:07.449 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31662.0>,connection\_down}

2022-06-27 18:34:09.306 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:34:14.549 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"rxpk">> => [#{<<"chan">> => 1,<<"codr">> => <<"4/5">>,<<"data">> => <<"QDDaAAGLLWFFAFioAGQI+2BCwagwdcDATufMzYAcb8dLRXqtInmIEB3dRJDxvyv/Lw6EA==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>

```
-246,<<"freq">> => 868.3,<<"jver">> => 1,<<"lsnr">> => 4.0,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 1,<<"rssi">> => -95,<<"rssi">>
=> -96,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 2010540682}} from
12291671073248440251 on 35152
2022-06-27 18:34:17.449 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:34:17.531 1 [info] <0.31665.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:34:17.533 1 [info] <0.31665.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.31664.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:34:17.610 1 [error] <0.31664.0>@http2_client:handle_settings:822
gen_server <0.31664.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:34:17.614 1 [error] <0.31664.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31664.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:34:17.614 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31665.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:34:17.615 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:34:17.616 1 [error] <0.31665.0>@Undefined:Undefined:Undefined
gen_server <0.31665.0> terminated with reason: connection_down
2022-06-27 18:34:17.616 1 [error] <0.31665.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31665.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:34:17.617 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:34:17.617 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:34:17.620 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31664.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"3.72.215.7">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4907>,socket_mon =>
#Ref<0.155928093.3973578754.13575>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31665.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 18:34:17.620 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31665.0>,connection_down}
2022-06-27 18:34:19.449 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:34:27.620 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:34:27.896 1 [info] <0.31668.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:34:27.897 1 [info] <0.31668.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.31667.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:34:28.169 1 [error] <0.31667.0>@http2_client:handle_settings:822
gen_server <0.31667.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:34:28.173 1 [error] <0.31667.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31667.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:34:28.174 1 [error] <0.31668.0>@Undefined:Undefined:Undefined
gen_server <0.31668.0> terminated with reason: connection_down
2022-06-27 18:34:28.175 1 [error] <0.31668.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31668.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:34:28.175 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.31668.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:34:28.176 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:34:28.177 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:34:28.177 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:34:28.181 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31667.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4908>,socket_mon =>
#Ref<0.155928093.3973578754.13648>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31668.0>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 18:34:28.182 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31668.0>,connection_down}
2022-06-27 18:34:29.596 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:34:36.530 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:34:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:34:36.531 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:34:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:34:36.533 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4800,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:34:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:34:38.180 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:34:38.406 1 [info] <0.31676.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:34:38.408 1 [info] <0.31676.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.31675.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:34:38.629 1 [error]
<0.31675.0>@http2_client:handle_settings:822 gen_server <0.31675.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:34:38.631 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31676.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:34:38.631 1 [error]
<0.31675.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31675.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:34:38.632 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:34:38.632 1 [error] <0.31676.0>@Undefined:Undefined:Undefined
gen_server <0.31676.0> terminated with reason: connection_down
2022-06-27 18:34:38.632 1 [error] <0.31676.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31676.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:34:38.632 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 18:34:38.633 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:34:38.634 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31675.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4909>,socket_mon =>
#Ref<0.155928093.3973578754.13745>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31676.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}]}
2022-06-27 18:34:38.634 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31676.0>,connection_down}
2022-06-27 18:34:39.743 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:34:48.635 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:34:48.872 1 [info] <0.31689.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```



```
2022-06-27 18:34:48.872 1 [info] <0.31689.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.31688.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:34:49.103 1 [error]
<0.31688.0>@http2_client:handle_settings:822 gen_server <0.31688.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:34:49.105 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31689.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:34:49.105 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:34:49.105 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:34:49.105 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:34:49.105 1 [error]
<0.31688.0>@http2_client:handle_settings:822 CRASH REPORT Process
```

```
<0.31688.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:34:49.106 1 [error] <0.31689.0>@Undefined:Undefined:Undefined
gen_server <0.31689.0> terminated with reason: connection_down
2022-06-27 18:34:49.106 1 [error] <0.31689.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31689.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:34:49.107 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31688.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4910>,socket_mon =>
#Ref<0.155928093.3973578754.13818>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31689.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:34:49.108 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31689.0>,connection_down}
2022-06-27 18:34:49.889 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833

2022-06-27 18:34:59.107 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.104.32.11":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 18:34:59.432 1 [info] <0.31693.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 18:34:59.433 1 [info] <0.31693.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"3.104.32.11">>,http\_connection => <0.31692.0>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[],[]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 18:34:59.746 1 [error]

<0.31692.0>@http2\_client:handle\_settings:822 gen\_server <0.31692.0>

terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 18:34:59.747 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.31693.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},

{miner\_poc\_grpc\_client\_statem,setup,3,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},

{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}

2022-06-27 18:34:59.747 1 [error]

<0.31692.0>@http2\_client:handle\_settings:822 CRASH REPORT Process

<0.31692.0> with 0 neighbours crashed with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 18:34:59.747 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:34:59.747 1 [error] <0.31693.0>@Undefined:Undefined:Undefined
gen_server <0.31693.0> terminated with reason: connection_down
2022-06-27 18:34:59.748 1 [error] <0.31693.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31693.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:34:59.748 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:34:59.749 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:34:59.750 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31692.0>,{function_clause,
[{:http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4911>,socket_mon =>
#Ref<0.155928093.3973578754.14007>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31693.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 18:34:59.751 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31693.0>,connection_down}
2022-06-27 18:35:00.042 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:35:06.535 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:35:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:35:06.536 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:35:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:35:06.537 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4804,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:35:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:35:09.752 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:35:09.830 1 [info] <0.31700.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:35:09.831 1 [info] <0.31700.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.31699.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:35:09.904 1 [error]
<0.31699.0>@http2_client:handle_settings:822 gen_server <0.31699.0>
terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:35:09.905 1 [error]
<0.31699.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31699.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:35:09.905 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31700.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:35:09.906 1 [error] <0.31700.0>@Undefined:Undefined:Undefined
gen_server <0.31700.0> terminated with reason: connection_down
2022-06-27 18:35:09.906 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:35:09.906 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:35:09.906 1 [error] <0.31700.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31700.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:35:09.906 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:35:09.909 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31699.0>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4912>,socket_mon =>
#Ref<0.155928093.3973054468.203538>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31700.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:35:09.909 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31700.0>,connection_down}
2022-06-27 18:35:10.183 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:35:19.909 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:35:20.333 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:35:30.489 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:35:36.535 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
```

```
#{"stat":0,"ackr":0.0,"dwnb":0,"rxfw":0,"rxnb":0,"rxok":0,"temp":0.0,"time":"2022-06-27 18:35:36 GMT","txnb":0} from
12291671073248440251 on 35152
2022-06-27 18:35:36.535 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{"ackr":0.0,"dwnb":0,"rxfw":0,"rxnb":0,"rxok":0,"temp":0.0,"time":"2022-06-27 18:35:36 GMT","txnb":0}
2022-06-27 18:35:36.537 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4808,dropped=0,status=#{"ackr":0.0,"dwnb":0,"rxfw":0,"rxnb":0,"rxok":0,"temp":0.0,"time":"2022-06-27 18:35:36 GMT","txnb":0},rtt_samples=[],rtt=5000000}
2022-06-27 18:35:40.629 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:35:49.915 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:35:49.916 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:35:49.917 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31702.0>,timeout}
2022-06-27 18:35:49.918 1 [error] <0.31702.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31702.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 18:35:50.779 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:35:51.796 1 [warning]
<0.1643.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
11LVDrecay6HpXuWMaBkiTHQZo6ehjAPbr6H3j3pwEPSqSTUU9x": [{"/
```



```
ip4/85.57.240.183/tcp/44158",timeout}]
2022-06-27 18:35:59.919 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:36:00.000 1 [info] <0.31722.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:36:00.002 1 [info] <0.31722.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.31721.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:36:00.073 1 [error] <0.31721.0>@http2_client:handle_settings:822
gen_server <0.31721.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:36:00.074 1 [error] <0.31721.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31721.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:36:00.074 1 [error] <0.31722.0>@Undefined:Undefined:Undefined
gen_server <0.31722.0> terminated with reason: connection_down
2022-06-27 18:36:00.075 1 [error] <0.31722.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31722.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:36:00.076 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31722.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:36:00.076 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:36:00.076 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:36:00.077 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:36:00.078 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31721.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.72.143.228">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4919>,socket_mon =>
#Ref<0.155928093.3974103041.34600>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31722.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]]}
```

2022-06-27 18:36:00.078 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31722.0>,connection\_down}

2022-06-27 18:36:00.929 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:36:06.534 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:36:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 18:36:06.534 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:36:06 GMT">>,<<"txnb">> => 0}

2022-06-27 18:36:06.535 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway #gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4812,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:36:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 18:36:10.079 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.104.32.11": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 18:36:10.412 1 [info] <0.31730.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 18:36:10.413 1 [info] <0.31730.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.104.32.11">>,http\_connection => <0.31729.0>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[ ]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 18:36:10.736 1 [error] <0.31729.0>@http2\_client:handle\_settings:822 gen\_server <0.31729.0> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 18:36:10.738 1 [error] <0.31729.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31729.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 18:36:10.739 1 [error] <0.31730.0>@Undefined:Undefined:Undefined
gen_server <0.31730.0> terminated with reason: connection_down
2022-06-27 18:36:10.740 1 [error] <0.31730.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31730.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:36:10.741 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31730.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:36:10.741 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:36:10.742 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:36:10.743 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:36:10.747 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31729.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4920>,socket_mon =>
#Ref<0.155928093.3973578754.14990>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31730.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:36:10.747 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31730.0>,connection_down}
2022-06-27 18:36:11.079 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:36:20.746 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:36:20.983 1 [info] <0.31733.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:36:20.985 1 [info] <0.31733.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.31732.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 18:36:21.210 1 [error] <0.31732.0>@http2_client:handle_settings:822
gen_server <0.31732.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:36:21.212 1 [error] <0.31732.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31732.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:36:21.213 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31733.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:36:21.213 1 [error] <0.31733.0>@Undefined:Undefined:Undefined
gen_server <0.31733.0> terminated with reason: connection_down
2022-06-27 18:36:21.213 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:36:21.213 1 [error] <0.31733.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31733.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:36:21.213 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:36:21.213 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:36:21.215 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.31732.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.215.75.202">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4921>,socket_mon =>
#Ref<0.155928093.3973578754.15051>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31733.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:36:21.215 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:36:21.216 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31733.0>,connection_down}
2022-06-27 18:36:31.215 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:36:31.359 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:36:36.541 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 18:36:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:36:36.541 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:36:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:36:36.542 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4816,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:36:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:36:39.427 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112RESRxyrWKRq9xka3feGnkJoq1RnDPxGDr53B2NvrMDk1rYw8c" informed us of
our observed address "/ip4/80.77.186.186/tcp/10849"
2022-06-27 18:36:41.503 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:36:51.642 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:37:00.235 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 3,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAGbrOf7ADh8ACDZj96scINgOFTVH0jgQglqQ9UsKds5H+prfQ95G+Xfh
rmz3UvoFw==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
-273,<<"freq">> => 867.1,<<"jver">> => 1,<<"lsnr">> => -10.5,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -112,<<"rssiS">>
=> -122,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 2176225200}} from
12291671073248440251 on 35152
2022-06-27 18:37:01.219 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 18:37:01.219 1 [warning]
```



<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 18:37:01.220 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31735.0>,timeout}  
2022-06-27 18:37:01.220 1 [error] <0.31735.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.31735.0> with 0 neighbours exited with reason: timeout in gen\_server:init\_it/6 line 407  
2022-06-27 18:37:01.782 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 18:37:06.533 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:37:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 18:37:06.534 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:37:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 18:37:06.535 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4820,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:37:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 18:37:11.221 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.228.158.83":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:37:11.502 1 [info] <0.31769.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 18:37:11.504 1 [info] <0.31769.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"18.228.158.83">>,http\_connection => <0.31768.0>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

```
2022-06-27 18:37:11.777 1 [error] <0.31768.0>@http2_client:handle_settings:822
gen_server <0.31768.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:37:11.778 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31769.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:37:11.778 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:37:11.778 1 [error] <0.31768.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31768.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:37:11.778 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:37:11.778 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:37:11.779 1 [error] <0.31769.0>@Undefined:Undefined:Undefined
gen_server <0.31769.0> terminated with reason: connection_down
2022-06-27 18:37:11.779 1 [error] <0.31769.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31769.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:37:11.780 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.31768.0>,{function_clause,
[{{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"18.228.158.83">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4928>,socket_mon =>
#Ref<0.155928093.3974103041.34879>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31769.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:37:11.780 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31769.0>,connection_down}
2022-06-27 18:37:11.929 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:37:21.663 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1639.0>
2022-06-27 18:37:21.780 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:37:22.006 1 [info] <0.31778.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:37:22.008 1 [info] <0.31778.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.31777.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:37:22.065 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:37:22.230 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31778.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:37:22.231 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:37:22.233 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:37:22.232 1 [error] <0.31777.0>@http2_client:handle_settings:822
gen_server <0.31777.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:37:22.233 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:37:22.235 1 [error] <0.31777.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31777.0> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:37:22.236 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31777.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4929>,socket_mon =>
#Ref<0.155928093.3973578754.16073>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31778.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}}
2022-06-27 18:37:22.236 1 [error] <0.31778.0>@Undefined:Undefined:Undefined
gen_server <0.31778.0> terminated with reason: connection_down
2022-06-27 18:37:22.236 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31778.0>,connection_down}
2022-06-27 18:37:22.237 1 [error] <0.31778.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31778.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:37:32.223 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 18:37:32.236 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:37:32.471 1 [info] <0.31781.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:37:32.472 1 [info] <0.31781.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.31780.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:37:32.726 1 [error]
<0.31780.0>@http2_client:handle_settings:822 gen_server <0.31780.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:37:32.728 1 [error]
<0.31780.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31780.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:37:32.730 1 [error] <0.31781.0>@Undefined:Undefined:Undefined
gen_server <0.31781.0> terminated with reason: connection_down
2022-06-27 18:37:32.731 1 [error] <0.31781.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31781.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:37:32.732 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31781.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]
2022-06-27 18:37:32.732 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:37:32.733 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:37:32.733 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:37:32.737 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31780.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4930>,socket_mon =>
#Ref<0.155928093.3974103041.34992>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31781.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 18:37:32.738 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31781.0>,connection_down} 2022-06-27
18:37:36.539 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:37:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:37:36.539 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:37:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:37:36.540 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4824,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:37:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:37:42.365 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:37:42.736 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:37:46.145 1 [info] <0.31789.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:37:46.146 1 [info] <0.31789.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.31784.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:37:46.372 1 [error]
<0.31784.0>@http2_client:handle_settings:822 gen_server <0.31784.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```



```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:37:46.373 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31789.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:37:46.373 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:37:46.374 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:37:46.374 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:37:46.375 1 [error]
<0.31784.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31784.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:37:46.375 1 [error] <0.31789.0>@Undefined:Undefined:Undefined
gen_server <0.31789.0> terminated with reason: connection_down
2022-06-27 18:37:46.376 1 [error] <0.31789.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31789.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:37:46.376 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31784.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"54.70.239.5">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4931>,socket_mon =>
#Ref<0.155928093.3974103041.35136>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31789.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:37:46.376 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31789.0>,connection_down}
2022-06-27 18:37:52.509 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:37:56.376 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:37:56.608 1 [info] <0.31799.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:37:56.610 1 [info] <0.31799.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.31798.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:37:59.396 1 [warning]
<0.1645.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/
ip4/54.94.18.75/tcp/443": {exit,{normal,{gen_server,call,[<0.31336.0>,open]}}}
2022-06-27 18:38:01.831 1 [error] <0.31798.0>@Undefined:Undefined:Undefined
gen_server <0.31798.0> terminated with reason: closed_by_peer
2022-06-27 18:38:01.831 1 [error] <0.31798.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31798.0> with 0 neighbours exited with reason:
closed_by_peer in gen_server:handle_common_reply/8 line 811
2022-06-27 18:38:01.832 1 [error] <0.31799.0>@Undefined:Undefined:Undefined
gen_server <0.31799.0> terminated with reason: connection_down
2022-06-27 18:38:01.833 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: error, Error: {case_clause,eof}, Stack:
[{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:38:01.833 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:38:01.833 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:38:01.833 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:38:01.834 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31798.0>,closed_by_peer}
2022-06-27 18:38:01.834 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31799.0>,connection_down}
2022-06-27 18:38:01.833 1 [error] <0.31799.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31799.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

2022-06-27 18:38:02.643 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:38:06.537 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:38:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 18:38:06.537 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:38:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 18:38:06.539 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4828,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:38:06 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 18:38:11.836 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.122.38.248":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:38:12.789 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:38:12.931 1 [info] <0.31808.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 18:38:12.932 1 [info] <0.31808.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"3.122.38.248">>,http\_connection => <0.31807.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[ ]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 18:38:13.007 1 [error] <0.31807.0>@http2\_client:handle\_settings:822  
gen\_server <0.31807.0> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 18:38:13.008 1 [error] <0.31807.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31807.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 18:38:13.008 1 [error] <0.31808.0>@Undefined:Undefined:Undefined
gen_server <0.31808.0> terminated with reason: connection_down
2022-06-27 18:38:13.009 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31808.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:38:13.009 1 [error] <0.31808.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31808.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:38:13.009 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:38:13.009 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:38:13.009 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:38:13.011 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31807.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4933>,socket_mon =>
#Ref<0.155928093.3973054468.204367>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31808.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 18:38:13.012 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31808.0>,connection_down}
2022-06-27 18:38:20.390 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11ozwWDuXsy77ry69xfYnJyrHQV83PhMdCkqgtvcrQwApJeFS8G" informed us of
our observed address "/ip4/80.77.186.186/tcp/34891"
2022-06-27 18:38:22.952 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:38:23.011 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:38:23.172 1 [info] <0.31832.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:38:23.173 1 [info] <0.31832.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.31831.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:38:23.328 1 [error]
<0.31831.0>@http2_client:handle_settings:822 gen_server <0.31831.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:38:23.329 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31832.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:38:23.329 1 [error]
<0.31831.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31831.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:38:23.329 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:38:23.330 1 [error] <0.31832.0>@Undefined:Undefined:Undefined
gen_server <0.31832.0> terminated with reason: connection_down
2022-06-27 18:38:23.330 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:38:23.330 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

validator failed: {error,req\_failed}  
2022-06-27 18:38:23.330 1 [error] <0.31832.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.31832.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:38:23.334 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31831.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"3.131.232.233">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}]}},host => "3.131.232.233",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
>=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4941>,socket\_mon =>  
#Ref<0.155928093.3973054468.204702>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.31832.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}}  
2022-06-27 18:38:23.335 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31832.0>,connection\_down}  
2022-06-27 18:38:33.103 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:38:33.333 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.137.92.200":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:38:33.499 1 [info] <0.31835.0>@grpc\_client\_stream\_custom:init:



```
{131,9} init stream for RPC validators and type unary
2022-06-27 18:38:33.501 1 [info] <0.31835.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.31834.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:38:33.658 1 [error]
<0.31834.0>@http2_client:handle_settings:822 gen_server <0.31834.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:38:33.660 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31835.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:38:33.660 1 [error]
<0.31834.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31834.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:38:33.661 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 18:38:33.662 1 [error] <0.31835.0>@Undefined:Undefined:Undefined  
gen\_server <0.31835.0> terminated with reason: connection\_down  
2022-06-27 18:38:33.662 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 18:38:33.662 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:38:33.662 1 [error] <0.31835.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.31835.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:38:33.666 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31834.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}},host => "3.137.92.200",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4942>,socket\_mon =>  
#Ref<0.155928093.3973054468.204739>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.31835.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]  
2022-06-27 18:38:33.667 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31835.0>,connection\_down}  
2022-06-27 18:38:36.546 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:38:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:38:36.546 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:38:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:38:36.547 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4832,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:38:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:38:43.256 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:38:43.664 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:38:43.896 1 [info] <0.31838.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:38:43.897 1 [info] <0.31838.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.31837.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:38:44.126 1 [error] <0.31837.0>@http2_client:handle_settings:822
gen_server <0.31837.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:38:44.127 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31838.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[[file,"gen_server.erl"],{line,247}]],
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]},{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]},
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]},
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]]
2022-06-27 18:38:44.127 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:38:44.129 1 [error] <0.31837.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31837.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:38:44.129 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:38:44.129 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:38:44.130 1 [error] <0.31838.0>@Undefined:Undefined:Undefined
gen_server <0.31838.0> terminated with reason: connection_down
2022-06-27 18:38:44.130 1 [error] <0.31838.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31838.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:38:44.134 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31837.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4943>,socket_mon =>
#Ref<0.155928093.3973578754.16952>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31838.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}
2022-06-27 18:38:44.135 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31838.0>,connection_down}
2022-06-27 18:38:53.395 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:38:54.132 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:38:54.209 1 [info] <0.31846.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:38:54.212 1 [info] <0.31846.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.31845.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:38:54.278 1 [error]
<0.31845.0>@http2_client:handle_settings:822 gen_server <0.31845.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:38:54.279 1 [error]
<0.31845.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31845.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:38:54.281 1 [error] <0.31846.0>@Undefined:Undefined:Undefined
gen_server <0.31846.0> terminated with reason: connection_down
2022-06-27 18:38:54.281 1 [error] <0.31846.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31846.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:38:54.282 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31846.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:38:54.282 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:38:54.283 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:38:54.283 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:38:54.285 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31845.0>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4944>,socket_mon =>
#Ref<0.155928093.3973578754.17193>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31846.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:38:54.285 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31846.0>,connection_down}
2022-06-27 18:39:03.545 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:39:04.286 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:39:04.561 1 [info] <0.31857.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:39:04.562 1 [info] <0.31857.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.31856.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:39:04.847 1 [error]
<0.31856.0>@http2_client:handle_settings:822 gen_server <0.31856.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:39:04.849 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31857.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:39:04.849 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:39:04.850 1 [error]
<0.31856.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31856.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:39:04.851 1 [error] <0.31857.0>@Undefined:Undefined:Undefined
gen_server <0.31857.0> terminated with reason: connection_down
2022-06-27 18:39:04.851 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:39:04.851 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```



2022-06-27 18:39:04.852 1 [error] <0.31857.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.31857.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 18:39:04.855 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31856.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "18.228.158.83",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4945>,socket\_mon =>  
#Ref<0.155928093.3973578754.17397>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.31857.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 18:39:04.856 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31857.0>,connection\_down}

2022-06-27 18:39:06.546 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:39:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152

2022-06-27 18:39:06.547 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>

```
<<"2022-06-27 18:39:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:39:06.548 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4836,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:39:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:39:13.692 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:39:14.854 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:39:15.184 1 [info] <0.31862.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:39:15.185 1 [info] <0.31862.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.31861.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:39:15.511 1 [error] <0.31861.0>@http2_client:handle_settings:822
gen_server <0.31861.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:39:15.512 1 [error] <0.31861.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31861.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:39:15.513 1 [error] <0.31862.0>@Undefined:Undefined:Undefined
gen_server <0.31862.0> terminated with reason: connection_down
2022-06-27 18:39:15.513 1 [error] <0.31862.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31862.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 18:39:15.514 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31862.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 18:39:15.514 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 18:39:15.515 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 18:39:15.516 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 18:39:15.517 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31861.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4946>,socket_mon =>
#Ref<0.155928093.3973578754.17611>,state => open,stream_count => 1,streams
```

```
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.31862.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl",{line,226}}}]}}
2022-06-27 18:39:15.518 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31862.0>,connection_down}
2022-06-27 18:39:23.842 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:39:25.517 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:39:25.789 1 [info] <0.31889.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:39:25.790 1 [info] <0.31889.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.31886.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:39:26.058 1 [error]
<0.31886.0>@http2_client:handle_settings:822 gen_server <0.31886.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:39:26.058 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31889.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 18:39:26.058 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:39:26.060 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:39:26.060 1 [error]
<0.31886.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31886.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:39:26.060 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:39:26.060 1 [error] <0.31889.0>@Undefined:Undefined:Undefined
gen_server <0.31889.0> terminated with reason: connection_down
2022-06-27 18:39:26.061 1 [error] <0.31889.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31889.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:39:26.062 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31886.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
```

```
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4952>,socket_mon =>
#Ref<0.155928093.3973578754.17810>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31889.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 18:39:26.063 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31889.0>,connection_down}
2022-06-27 18:39:33.999 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:39:36.063 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:39:36.229 1 [info] <0.31892.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:39:36.232 1 [info] <0.31892.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.31891.0>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:39:36.389 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31892.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl"},{line,418}}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]
2022-06-27 18:39:36.389 1 [error]
<0.31891.0>@http2_client:handle_settings:822 gen_server <0.31891.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:39:36.389 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:39:36.390 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:39:36.390 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:39:36.390 1 [error]
<0.31891.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31891.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:39:36.390 1 [error] <0.31892.0>@Undefined:Undefined:Undefined
gen_server <0.31892.0> terminated with reason: connection_down
2022-06-27 18:39:36.391 1 [error] <0.31892.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31892.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:39:36.392 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31891.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4953>,socket_mon =>
#Ref<0.155928093.3973578754.18004>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31892.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}
2022-06-27 18:39:36.393 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31892.0>,connection_down}
2022-06-27 18:39:36.547 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:39:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:39:36.547 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:39:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:39:36.548 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4840,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:39:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
```



```
2022-06-27 18:39:44.133 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:39:46.393 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:39:46.732 1 [info] <0.31895.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:39:46.735 1 [info] <0.31895.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.31894.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:39:47.646 1 [error]
<0.31894.0>@http2_client:handle_settings:822 gen_server <0.31894.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:39:47.647 1 [error]
<0.31894.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31894.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:39:47.648 1 [error] <0.31895.0>@Undefined:Undefined:Undefined
gen_server <0.31895.0> terminated with reason: connection_down
2022-06-27 18:39:47.649 1 [error] <0.31895.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31895.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:39:47.649 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31895.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 18:39:47.649 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:39:47.650 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:39:47.650 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:39:47.652 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31894.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"3.24.161.210">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4954>,socket_mon =>
#Ref<0.155928093.3973578754.18206>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31895.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[[file,"http2_client.erl"],{line,822}]],
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:39:47.653 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31895.0>,connection_down}
2022-06-27 18:39:54.286 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:39:57.652 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:39:57.878 1 [info] <0.31903.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:39:57.879 1 [info] <0.31903.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.31902.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:39:58.104 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31903.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:39:58.105 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 18:39:58.105 1 [error]
<0.31902.0>@http2_client:handle_settings:822 gen_server <0.31902.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:39:58.106 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:39:58.106 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:39:58.107 1 [error]
<0.31902.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31902.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:39:58.108 1 [error] <0.31903.0>@Undefined:Undefined:Undefined
gen_server <0.31903.0> terminated with reason: connection_down
2022-06-27 18:39:58.108 1 [error] <0.31903.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31903.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:39:58.110 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31902.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4955>,socket_mon =>
```

```
#Ref<0.155928093.3973578754.18516>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31903.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 18:39:58.111 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31903.0>,connection_down}
2022-06-27 18:40:04.432 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:40:06.544 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:40:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:40:06.545 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:40:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:40:06.548 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4844,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:40:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:40:08.108 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:40:08.199 1 [info] <0.31919.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:40:08.200 1 [info] <0.31919.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,<<"http_connection">> => <0.31917.0>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:40:08.283 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31919.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:40:08.284 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:40:08.284 1 [error]
<0.31917.0>@http2_client:handle_settings:822 gen_server <0.31917.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:40:08.285 1 [error] <0.31917.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31917.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:40:08.286 1 [error] <0.31919.0>@Undefined:Undefined:Undefined
gen_server <0.31919.0> terminated with reason: connection_down
2022-06-27 18:40:08.286 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:40:08.286 1 [error] <0.31919.0>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.31919.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:40:08.286 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:40:08.289 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31917.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "52.30.111.82",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4957>,socket\_mon =>  
#Ref<0.155928093.3974103041.36318>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.31919.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}  
2022-06-27 18:40:08.290 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.31919.0>,connection\_down}  
2022-06-27 18:40:14.579 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:40:18.289 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "18.228.115.118":  
{gateway\_validators\_req\_v1\_pb,1}

```
2022-06-27 18:40:18.570 1 [info] <0.31932.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:40:18.571 1 [info] <0.31932.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.31931.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:40:18.845 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31932.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:40:18.846 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:40:18.846 1 [error]
<0.31931.0>@http2_client:handle_settings:822 gen_server <0.31931.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:40:18.847 1 [error] <0.31931.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31931.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```



2022-06-27 18:40:18.847 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 18:40:18.847 1 [error] <0.31932.0>@Undefined:Undefined:Undefined gen\_server <0.31932.0> terminated with reason: connection\_down

2022-06-27 18:40:18.847 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:40:18.848 1 [error] <0.31932.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.31932.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 18:40:18.849 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31931.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{56, {<<":authority">>,<<"18.228.115.118">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "18.228.115.118",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4958>,socket\_mon => #Ref<0.155928093.3973054468.205431>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.31932.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 18:40:18.849 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31932.0>,connection\_down}

2022-06-27 18:40:24.719 1 [info]

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<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:40:28.850 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:40:29.014 1 [info] <0.31937.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:40:29.016 1 [info] <0.31937.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.31936.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:40:29.173 1 [error]
<0.31936.0>@http2_client:handle_settings:822 gen_server <0.31936.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:40:29.175 1 [error]
<0.31936.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31936.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:40:29.176 1 [error] <0.31937.0>@Undefined:Undefined:Undefined
gen_server <0.31937.0> terminated with reason: connection_down
2022-06-27 18:40:29.176 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31937.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

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[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:40:29.177 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:40:29.177 1 [error] <0.31937.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31937.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:40:29.177 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:40:29.178 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:40:29.180 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31936.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4959>,socket_mon =>
#Ref<0.155928093.3973054468.205470>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31937.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
```

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{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:40:29.184 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31937.0>,connection_down}
2022-06-27 18:40:34.863 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:40:36.553 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:40:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:40:36.553 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:40:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:40:36.555 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4848,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:40:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:40:39.181 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:40:39.264 1 [info] <0.31948.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:40:39.265 1 [info] <0.31948.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.31947.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:40:39.342 1 [error]
<0.31947.0>@http2_client:handle_settings:822 gen_server <0.31947.0>
```

```
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:40:39.344 1 [error]
<0.31947.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31947.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:40:39.345 1 [error] <0.31948.0>@Undefined:Undefined:Undefined
gen_server <0.31948.0> terminated with reason: connection_down
2022-06-27 18:40:39.345 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31948.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:40:39.345 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:40:39.346 1 [error] <0.31948.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31948.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:40:39.346 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:40:39.346 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:40:39.350 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.31947.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4960>,socket_mon =>
#Ref<0.155928093.3973054468.205571>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31948.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:40:39.351 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31948.0>,connection_down}
2022-06-27 18:40:45.022 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:40:49.349 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:40:49.680 1 [info] <0.31951.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:40:49.683 1 [info] <0.31951.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.31950.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:40:50.002 1 [error]
<0.31950.0>@http2_client:handle_settings:822 gen_server <0.31950.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:40:50.004 1 [error]
<0.31950.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31950.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:40:50.005 1 [error] <0.31951.0>@Undefined:Undefined:Undefined
gen_server <0.31951.0> terminated with reason: connection_down
2022-06-27 18:40:50.006 1 [error] <0.31951.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31951.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:40:50.006 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31951.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:40:50.007 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:40:50.008 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 18:40:50.008 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 18:40:50.012 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31950.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{53, {<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.104.32.11",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4961>,socket\_mon => #Ref<0.155928093.3973054468.205590>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.31951.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 18:40:50.013 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.31951.0>,connection\_down}  
2022-06-27 18:40:53.145 1 [info] <0.1636.0>@libp2p\_peerbook:notify\_peers: {726,5} gossiping out 1 notify peers  
2022-06-27 18:40:55.163 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 18:40:56.757 1 [warning]  
<0.1639.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/



```
11zASd6YvSybmzDeomaDVZudmHh5FEdVED6yU2Bv7PnWQeSfqkh": [{"/
ip4/151.230.140.135/tcp/44158",timeout}]
2022-06-27 18:41:00.011 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:41:00.287 1 [info] <0.31957.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:41:00.289 1 [info] <0.31957.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.31956.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:41:00.558 1 [error]
<0.31956.0>@http2_client:handle_settings:822 gen_server <0.31956.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:41:00.560 1 [error]
<0.31956.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.31956.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:41:00.568 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31957.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

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[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:41:00.568 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:41:00.569 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:41:00.569 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:41:00.571 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31956.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4967>,socket_mon =>
#Ref<0.155928093.3973054468.205972>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31957.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}}
2022-06-27 18:41:00.572 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

in setup state: Type: info, Msg: {'EXIT',<0.31957.0>,connection\_down}  
2022-06-27 18:41:00.572 1 [error] <0.31957.0>@Undefined:Undefined:Undefined  
gen\_server <0.31957.0> terminated with reason: connection\_down  
2022-06-27 18:41:00.573 1 [error] <0.31957.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.31957.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:41:05.309 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:41:06.552 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:41:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 18:41:06.553 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:41:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 18:41:06.554 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4852,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:41:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 18:41:10.572 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.210.14.128":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:41:10.670 1 [info] <0.31960.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 18:41:10.671 1 [info] <0.31960.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"52.210.14.128">>,http\_connection => <0.31959.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 18:41:10.760 1 [error] <0.31959.0>@http2\_client:handle\_settings:822  
gen\_server <0.31959.0> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,

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<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:41:10.762 1 [error] <0.31959.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.31959.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:41:10.763 1 [error] <0.31960.0>@Undefined:Undefined:Undefined
gen_server <0.31960.0> terminated with reason: connection_down
2022-06-27 18:41:10.763 1 [error] <0.31960.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31960.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:41:10.764 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.31960.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:41:10.764 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:41:10.765 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:41:10.765 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:41:10.768 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31959.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4968>,socket_mon =>
#Ref<0.155928093.3973054468.205997>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.31960.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 18:41:10.769 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31960.0>,connection_down}
2022-06-27 18:41:15.452 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:41:20.768 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:41:21.597 1 [notice]
<0.31974.0>@libp2p_stream_relay:handle_info:{146,5} client init bridge Server to
Client {libp2p_relay_bridge_rs_pb,"/p2p/
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv","/
ip4/77.54.94.95/tcp/29737"}
2022-06-27 18:41:22.458 1 [info] <0.31979.0>@libp2p_stream_proxy:init:{59,5}
init proxy server with {{connection,libp2p_yamux_stream,<0.31978.0>},
[],<0.1631.0>,blockchain_swarm}}
2022-06-27 18:41:22.579 1 [info]
<0.31979.0>@libp2p_stream_proxy:handle_server_data:{158,5} proxy server was
```

overloaded, removing address: "/p2p/  
11th5S21o9wkgiT5jviPUKlbEsspV8Fyi4x7DgxdFmZr8yoHS9z/p2p-circuit/p2p/  
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv"  
2022-06-27 18:41:25.595 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:41:26.786 1 [notice]  
<0.31976.0>@libp2p\_stream\_identify:handle\_info:{65,5} Identify timed out  
2022-06-27 18:41:26.788 1 [warning]  
<0.1630.0>@libp2p\_swarm\_server:handle\_info:{66,5} ignoring session after failed  
identify "/ip4/77.54.94.95/tcp/29737": timeout  
2022-06-27 18:41:26.789 1 [notice]  
<0.1631.0>@libp2p\_transport\_tcp:handle\_info:{475,5} session identification failed  
for "/ip4/77.54.94.95/tcp/29737": timeout  
2022-06-27 18:41:35.752 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:41:36.554 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:41:36 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 18:41:36.555 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:41:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 18:41:36.558 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4856,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:41:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 18:41:45.900 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:41:50.771 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}]],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}]],  
{miner\_poc\_grpc\_client\_statem,setup,3,

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[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:41:50.771 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:41:50.772 1 [error] <0.31962.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.31962.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 18:41:50.773 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.31962.0>,timeout}
2022-06-27 18:41:56.049 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:42:00.774 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:42:00.938 1 [info] <0.32007.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:42:00.940 1 [info] <0.32007.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.32006.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:42:01.099 1 [error]
<0.32006.0>@http2_client:handle_settings:822 gen_server <0.32006.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:42:01.099 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32007.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

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[[file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl",{line,226}}]}]
2022-06-27 18:42:01.099 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:42:01.099 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:42:01.100 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:42:01.100 1 [error]
<0.32006.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32006.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:42:01.100 1 [error] <0.32007.0>@Undefined:Undefined:Undefined
gen_server <0.32007.0> terminated with reason: connection_down
2022-06-27 18:42:01.101 1 [error] <0.32007.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32007.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:42:01.101 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32006.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
```



```
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4971>,socket_mon =>
#Ref<0.155928093.3973054468.206170>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32007.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:42:01.101 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32007.0>,connection_down}
2022-06-27 18:42:06.188 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:42:06.557 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:42:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:42:06.557 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:42:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:42:06.559 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4860,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:42:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:42:11.102 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:42:11.381 1 [info] <0.32010.0>@grpc_client_stream_custom:init:
```

```
{131,9} init stream for RPC validators and type unary
2022-06-27 18:42:11.382 1 [info] <0.32010.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.32009.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:42:11.652 1 [error]
<0.32009.0>@http2_client:handle_settings:822 gen_server <0.32009.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:42:11.653 1 [error]
<0.32009.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32009.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:42:11.653 1 [error] <0.32010.0>@Undefined:Undefined:Undefined
gen_server <0.32010.0> terminated with reason: connection_down
2022-06-27 18:42:11.654 1 [error] <0.32010.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32010.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:42:11.654 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32010.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

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{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 18:42:11.654 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:42:11.655 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:42:11.655 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:42:11.656 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32009.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.209.94.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4972>,socket_mon =>
#Ref<0.155928093.3973054468.206196>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32010.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 18:42:11.656 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32010.0>,connection_down}
2022-06-27 18:42:16.335 1 [info]
```

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 18:42:21.658 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.251.77.229":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:42:21.664 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for peerbook <0.1640.0>  
2022-06-27 18:42:21.897 1 [info] <0.32014.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 18:42:21.899 1 [info] <0.32014.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"54.251.77.229">>,http\_connection => <0.32013.0>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 18:42:22.129 1 [error]  
<0.32013.0>@http2\_client:handle\_settings:822 gen\_server <0.32013.0> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 18:42:22.130 1 [error]  
<0.32013.0>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.32013.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 18:42:22.130 1 [error] <0.32014.0>@Undefined:Undefined:Undefined gen\_server <0.32014.0> terminated with reason: connection\_down  
2022-06-27 18:42:22.130 1 [error] <0.32014.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.32014.0> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:42:22.131 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.32014.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}],

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:42:22.131 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:42:22.131 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:42:22.131 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:42:22.133 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32013.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4973>,socket_mon =>
#Ref<0.155928093.3973054468.206238>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32014.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:42:22.133 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32014.0>,connection_down}
2022-06-27 18:42:26.469 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:42:32.134 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:42:32.411 1 [info] <0.32017.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:42:32.413 1 [info] <0.32017.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.32016.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:42:32.675 1 [error]
<0.32016.0>@http2_client:handle_settings:822 gen_server <0.32016.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:42:32.677 1 [error]
<0.32016.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32016.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:42:32.677 1 [error] <0.32017.0>@Undefined:Undefined:Undefined
gen_server <0.32017.0> terminated with reason: connection_down
```

```
2022-06-27 18:42:32.677 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32017.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:42:32.677 1 [error] <0.32017.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32017.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:42:32.677 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:42:32.678 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:42:32.678 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:42:32.680 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32016.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"18.228.115.118">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4974>,socket_mon =>
#Ref<0.155928093.3973054468.206274>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32017.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:42:32.680 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32017.0>,connection_down}
2022-06-27 18:42:36.557 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:42:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:42:36.558 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:42:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:42:36.559 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4863,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:42:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:42:36.629 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:42:39.132 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 0,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAHq6Qb+AOd0ADs1b3qbhAvBFkSPMtofQDO8/1K/2e90I/
oTcHZA+jrAVGwYr+7fdw==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
-127,<<"freq">> => 868.1,<<"jver">> => 1,<<"lsnr">> => -12.5,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 1,<<"rssi">> => -109,<<"rssi">>
=> -120,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 2515121200]}} from
```



12291671073248440251 on 35152  
2022-06-27 18:42:42.680 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.122.38.248":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:42:42.766 1 [info] <0.32020.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 18:42:42.768 1 [info] <0.32020.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.122.38.248">>,http\_connection => <0.32019.0>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 18:42:42.842 1 [error]  
<0.32019.0>@http2\_client:handle\_settings:822 gen\_server <0.32019.0> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 18:42:42.843 1 [error]  
<0.32019.0>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.32019.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 18:42:42.843 1 [error]  
<0.32020.0>@Undefined:Undefined:Undefined gen\_server <0.32020.0> terminated with reason: connection\_down  
2022-06-27 18:42:42.843 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.32020.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0,

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[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:42:42.843 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:42:42.843 1 [error]
<0.32020.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.32020.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:42:42.844 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:42:42.844 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:42:42.845 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32019.0>,{function_clause,
[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4975>,socket_mon =>
#Ref<0.155928093.3973054468.206300>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32020.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:42:42.846 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32020.0>,connection_down}
2022-06-27 18:42:46.783 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:42:52.847 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:42:52.930 1 [info] <0.32023.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:42:52.932 1 [info] <0.32023.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.32022.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:42:53.007 1 [error]
<0.32022.0>@http2_client:handle_settings:822 gen_server <0.32022.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:42:53.009 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32023.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:42:53.009 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:42:53.010 1 [error]
<0.32022.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32022.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:42:53.011 1 [error] <0.32023.0>@Undefined:Undefined:Undefined
gen_server <0.32023.0> terminated with reason: connection_down
2022-06-27 18:42:53.011 1 [error] <0.32023.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32023.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:42:53.012 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:42:53.012 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:42:53.014 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32022.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4976>,socket_mon =>
```

```
#Ref<0.155928093.3973054468.206336>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32023.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 18:42:53.015 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32023.0>,connection_down}
2022-06-27 18:42:56.932 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:43:03.015 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:43:03.285 1 [info] <0.32031.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:43:03.286 1 [info] <0.32031.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.32030.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:43:03.545 1 [error]
<0.32030.0>@http2_client:handle_settings:822 gen_server <0.32030.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:43:03.545 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32031.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}]}
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:43:03.546 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:43:03.547 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:43:03.548 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:43:03.548 1 [error]
<0.32030.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32030.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:43:03.551 1 [error] <0.32031.0>@Undefined:Undefined:Undefined
gen_server <0.32031.0> terminated with reason: connection_down
2022-06-27 18:43:03.552 1 [error] <0.32031.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32031.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:43:03.552 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32030.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4977>,socket_mon =>
#Ref<0.155928093.3973054468.206393>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32031.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 18:43:03.553 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32031.0>,connection_down}
2022-06-27 18:43:06.560 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:43:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:43:06.560 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:43:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:43:06.562 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4867,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:43:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:43:07.072 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:43:13.551 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
```

```
{gateway_validators_req_v1_pb,1}
2022-06-27 18:43:13.834 1 [info] <0.32054.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:43:13.836 1 [info] <0.32054.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.32053.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:43:14.110 1 [error] <0.32053.0>@http2_client:handle_settings:822
gen_server <0.32053.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:43:14.113 1 [error] <0.32053.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.32053.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:43:14.114 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32054.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:43:14.114 1 [error] <0.32054.0>@Undefined:Undefined:Undefined
gen_server <0.32054.0> terminated with reason: connection_down
2022-06-27 18:43:14.114 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```



Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 18:43:14.115 1 [error] <0.32054.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.32054.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 18:43:14.115 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 18:43:14.115 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 18:43:14.117 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.32053.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "18.230.8.198",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4978>,socket\_mon =>  
#Ref<0.155928093.3973578754.22010>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.32054.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl",{line,822}}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}]}

2022-06-27 18:43:14.118 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.32054.0>,connection\_down}

2022-06-27 18:43:17.212 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:43:24.118 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:43:24.399 1 [info] <0.32059.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:43:24.401 1 [info] <0.32059.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.32058.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:43:24.666 1 [error]
<0.32058.0>@http2_client:handle_settings:822 gen_server <0.32058.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:43:24.667 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32059.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:43:24.667 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 18:43:24.668 1 [error]  
<0.32058.0>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.32058.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 18:43:24.668 1 [error]  
<0.32059.0>@Undefined:Undefined:Undefined gen\_server <0.32059.0>  
terminated with reason: connection\_down  
2022-06-27 18:43:24.668 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 18:43:24.668 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:43:24.669 1 [error]  
<0.32059.0>@Undefined:Undefined:Undefined CRASH REPORT Process  
<0.32059.0> with 0 neighbours exited with reason: connection\_down in  
gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:43:24.670 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.32058.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[],},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,  
{<<":authority">>,<<"13.125.32.225">>}}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "13.125.32.225",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.4979>,socket\_mon =>  
#Ref<0.155928093.3973054468.206473>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.32059.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:43:24.670 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32059.0>,connection_down}
2022-06-27 18:43:27.366 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:43:34.670 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:43:34.743 1 [info] <0.32062.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:43:34.744 1 [info] <0.32062.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.32061.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:43:34.812 1 [error]
<0.32061.0>@http2_client:handle_settings:822 gen_server <0.32061.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:43:34.814 1 [error]
<0.32061.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32061.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:43:34.815 1 [error] <0.32062.0>@Undefined:Undefined:Undefined
gen_server <0.32062.0> terminated with reason: connection_down
2022-06-27 18:43:34.815 1 [error] <0.32062.0>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.32062.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:43:34.816 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.32062.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 18:43:34.817 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 18:43:34.818 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 18:43:34.818 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:43:34.822 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.32061.0>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.72.143.228">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "3.72.143.228",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

```
16384},server_window => 65528,socket => #Port<0.4980>,socket_mon =>
#Ref<0.155928093.3973578754.22438>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32062.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 18:43:34.824 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32062.0>,connection_down}
2022-06-27 18:43:36.555 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:43:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:43:36.556 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:43:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:43:36.558 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4871,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:43:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:43:37.519 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:43:44.821 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:43:44.906 1 [info] <0.32065.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:43:44.908 1 [info] <0.32065.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"3.72.143.228">>,http_connection => <0.32064.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:43:44.986 1 [error]
<0.32064.0>@http2_client:handle_settings:822 gen_server <0.32064.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:43:44.988 1 [error]
<0.32064.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32064.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:43:44.989 1 [error]
<0.32065.0>@Undefined:Undefined:Undefined gen_server <0.32065.0>
terminated with reason: connection_down
2022-06-27 18:43:44.989 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32065.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:43:44.990 1 [error]
<0.32065.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.32065.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:43:44.990 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:43:44.991 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:43:44.991 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:43:44.995 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32064.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4981>,socket_mon =>
#Ref<0.155928093.3973054468.206513>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32065.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:43:44.996 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32065.0>,connection_down}
2022-06-27 18:43:47.682 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```



```
2022-06-27 18:43:54.994 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:43:55.158 1 [info] <0.32068.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:43:55.160 1 [info] <0.32068.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.32067.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:43:55.320 1 [error]
<0.32067.0>@http2_client:handle_settings:822 gen_server <0.32067.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:43:55.321 1 [error]
<0.32067.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32067.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:43:55.321 1 [error] <0.32068.0>@Undefined:Undefined:Undefined
gen_server <0.32068.0> terminated with reason: connection_down
2022-06-27 18:43:55.322 1 [error]
<0.32068.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.32068.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:43:55.322 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32068.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:43:55.323 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:43:55.323 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:43:55.324 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:43:55.326 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32067.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],}],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4982>,socket_mon =>
#Ref<0.155928093.3973578754.22822>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32068.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 18:43:55.327 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32068.0>,connection_down}
2022-06-27 18:43:57.832 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:44:05.327 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:44:05.656 1 [info] <0.32076.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:44:05.657 1 [info] <0.32076.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.32075.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:44:05.979 1 [error]
<0.32075.0>@http2_client:handle_settings:822 gen_server <0.32075.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:44:05.980 1 [error]
<0.32075.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32075.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:44:05.980 1 [error] <0.32076.0>@Undefined:Undefined:Undefined
gen_server <0.32076.0> terminated with reason: connection_down
2022-06-27 18:44:05.981 1 [error] <0.32076.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32076.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:44:05.981 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32076.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:44:05.981 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:44:05.982 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:44:05.982 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:44:05.984 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32075.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4983>,socket_mon =>
#Ref<0.155928093.3973054468.206575>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.32076.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 18:44:05.984 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32076.0>,connection_down}
2022-06-27 18:44:06.562 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:44:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:44:06.563 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:44:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:44:06.565 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4875,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:44:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:44:07.972 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:44:15.985 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:44:16.217 1 [info] <0.32112.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:44:16.219 1 [info] <0.32112.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.32111.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:44:16.436 1 [error] <0.32111.0>@http2_client:handle_settings:822
gen_server <0.32111.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:44:16.438 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32112.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:44:16.438 1 [error] <0.32111.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.32111.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:44:16.439 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:44:16.439 1 [error] <0.32112.0>@Undefined:Undefined:Undefined
gen_server <0.32112.0> terminated with reason: connection_down
2022-06-27 18:44:16.439 1 [error] <0.32112.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32112.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:44:16.440 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:44:16.440 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 18:44:16.442 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.32111.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096, [{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {53, {<<":authority">>,<<"54.70.239.5">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "54.70.239.5",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4985>,socket\_mon => #Ref<0.155928093.3973054468.206642>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.32112.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}}  
2022-06-27 18:44:16.442 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.32112.0>,connection\_down} 2022-06-27 18:44:18.122 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 18:44:26.443 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.210.14.128":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:44:26.530 1 [info] <0.32115.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 18:44:26.531 1 [info] <0.32115.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

```
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.32114.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:44:26.614 1 [error] <0.32114.0>@http2_client:handle_settings:822
gen_server <0.32114.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:44:26.615 1 [error] <0.32114.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.32114.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:44:26.615 1 [error] <0.32115.0>@Undefined:Undefined:Undefined
gen_server <0.32115.0> terminated with reason: connection_down
2022-06-27 18:44:26.616 1 [error] <0.32115.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32115.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:44:26.616 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32115.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:44:26.617 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```



2022-06-27 18:44:26.617 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 18:44:26.618 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:44:26.619 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.32114.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}]}]},host => "52.210.14.128",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4986>,socket\_mon => #Ref<0.155928093.3973054468.206682>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.32115.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}]},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 18:44:26.620 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.32115.0>,connection\_down}

2022-06-27 18:44:28.263 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:44:36.562 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>

```
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:44:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:44:36.563 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:44:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:44:36.565 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4879,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:44:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:44:36.621 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:44:36.705 1 [info] <0.32118.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:44:36.706 1 [info] <0.32118.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.32117.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:44:36.794 1 [error] <0.32117.0>@http2_client:handle_settings:822
gen_server <0.32117.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:44:36.796 1 [error] <0.32117.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.32117.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:44:36.798 1 [error] <0.32118.0>@Undefined:Undefined:Undefined
gen_server <0.32118.0> terminated with reason: connection_down
```

```
2022-06-27 18:44:36.798 1 [error] <0.32118.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32118.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:44:36.800 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32118.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:44:36.801 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:44:36.801 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:44:36.802 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:44:36.805 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32117.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.210.14.128">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4987>,socket_mon =>
#Ref<0.155928093.3973054468.206725>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32118.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:44:36.806 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32118.0>,connection_down} 2022-06-27
18:44:38.419 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 18:44:46.805 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:44:48.088 1 [info] <0.32121.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:44:48.091 1 [info] <0.32121.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.32120.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:44:48.360 1 [error]
<0.32120.0>@http2_client:handle_settings:822 gen_server <0.32120.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:44:48.361 1 [error]
<0.32120.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32120.0> with 0 neighbours crashed with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:44:48.362 1 [error] <0.32121.0>@Undefined:Undefined:Undefined
gen_server <0.32121.0> terminated with reason: connection_down
2022-06-27 18:44:48.362 1 [error] <0.32121.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32121.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:44:48.362 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32121.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:44:48.363 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:44:48.363 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:44:48.363 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:44:48.365 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32120.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>, <<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>, <<"application/grpc+proto">>}}, {55,
{<<":authority">>, <<"18.228.158.83">>}}, {63, {<<":path">>, <<"/helium.gateway/
validators">>}}}], host => "18.228.158.83", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.4988>, socket_mon =>
#Ref<0.155928093.3973054468.206763>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.32121.0>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file, "http2_client.erl"}, {line, 822}],
{http2_client, handle_packet, 2, [{file, "http2_client.erl"}, {line, 648}]},
{gen_server, try_dispatch, 4, [{file, "gen_server.erl"}, {line, 695}]},
{gen_server, handle_msg, 6, [{file, "gen_server.erl"}, {line, 771}]},
{proc_lib, init_p_do_apply, 3, [{file, "proc_lib.erl"}, {line, 226}]]}]
2022-06-27 18:44:48.365 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT', <0.32121.0>, connection_down} 2022-06-27
18:44:48.556 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 18:44:58.365 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb, 1}
2022-06-27 18:44:58.698 1 [info] <0.32124.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:44:58.699 1 [info] <0.32124.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>, compression =>
none, connection => #{client => http2_client, host =>
<<"3.104.32.11">>, http_connection => <0.32123.0>, scheme =>
<<"http">>}, encoder => gateway_miner_client_pb, headers_sent => false, input =>
gateway_validators_req_v1_pb, input_stream => false, metadata => #{}, name =>
validators, opts => [], output => gateway_resp_v1_pb, output_stream =>
false, package => [], queue => {[], []}, response_pending => false, rpc =>
validators, service => 'helium.gateway', state => idle, stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:44:58.702 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:44:59.024 1 [error]
```

```
<0.32123.0>@http2_client:handle_settings:822 gen_server <0.32123.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:44:59.026 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32124.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:44:59.026 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:44:59.026 1 [error]
<0.32123.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32123.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:44:59.027 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:44:59.027 1 [error] <0.32124.0>@Undefined:Undefined:Undefined
gen_server <0.32124.0> terminated with reason: connection_down
2022-06-27 18:44:59.027 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:44:59.028 1 [error] <0.32124.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32124.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:44:59.030 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32123.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4989>,socket_mon =>
#Ref<0.155928093.3973054468.206804>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32124.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 18:44:59.031 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32124.0>,connection_down}
2022-06-27 18:45:06.561 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:45:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:45:06.561 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:45:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:45:06.562 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```



```
ed=4883,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:45:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:45:08.835 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:45:09.030 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:45:09.123 1 [info] <0.32127.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:45:09.126 1 [info] <0.32127.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.32126.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:45:09.208 1 [error]
<0.32126.0>@http2_client:handle_settings:822 gen_server <0.32126.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:45:09.210 1 [error]
<0.32126.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32126.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:45:09.210 1 [error] <0.32127.0>@Undefined:Undefined:Undefined
gen_server <0.32127.0> terminated with reason: connection_down
2022-06-27 18:45:09.211 1 [error] <0.32127.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32127.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:45:09.212 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.32127.0>,{rcv,10000},infinity]}], Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:45:09.213 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:45:09.214 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:45:09.214 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:45:09.217 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32126.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4990>,socket_mon =>
#Ref<0.155928093.3973054468.206863>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32127.0>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 18:45:09.218 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32127.0>,connection_down} 2022-06-27
18:45:18.989 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 18:45:19.217 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:45:19.491 1 [info] <0.32155.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:45:19.492 1 [info] <0.32155.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.32154.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:45:19.760 1 [error]
<0.32154.0>@http2_client:handle_settings:822 gen_server <0.32154.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:45:19.762 1 [error] <0.32154.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.32154.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:45:19.763 1 [error] <0.32155.0>@Undefined:Undefined:Undefined
gen_server <0.32155.0> terminated with reason: connection_down
```

```
2022-06-27 18:45:19.763 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32155.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:45:19.763 1 [error] <0.32155.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32155.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:45:19.763 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:45:19.764 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:45:19.764 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:45:19.765 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32154.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"18.228.115.118">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4991>,socket_mon =>
#Ref<0.155928093.3973054468.206960>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32155.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:45:19.766 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32155.0>,connection_down}
2022-06-27 18:45:29.126 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:45:29.766 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:45:30.000 1 [info] <0.32159.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:45:30.002 1 [info] <0.32159.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.32158.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:45:30.229 1 [error]
<0.32158.0>@http2_client:handle_settings:822 gen_server <0.32158.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:45:30.231 1 [error]
<0.32158.0>@http2_client:handle_settings:822 CRASH REPORT Process
```

```
<0.32158.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:45:30.231 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32159.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:45:30.231 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:45:30.232 1 [error] <0.32159.0>@Undefined:Undefined:Undefined
gen_server <0.32159.0> terminated with reason: connection_down
2022-06-27 18:45:30.232 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:45:30.232 1 [error] <0.32159.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32159.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:45:30.233 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:45:30.237 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32158.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4992>,socket_mon =>
#Ref<0.155928093.3973054468.207121>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32159.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 18:45:30.238 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32159.0>,connection_down}
2022-06-27 18:45:36.560 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:45:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:45:36.561 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:45:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:45:36.562 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4887,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:45:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:45:39.265 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:45:40.236 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:45:40.473 1 [info] <0.32162.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:45:40.474 1 [info] <0.32162.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.32161.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:45:40.707 1 [error] <0.32161.0>@http2_client:handle_settings:822
gen_server <0.32161.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:45:40.708 1 [error]
<0.32161.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32161.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:45:40.709 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32162.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:45:40.709 1 [error] <0.32162.0>@Undefined:Undefined:Undefined
```



```
gen_server <0.32162.0> terminated with reason: connection_down
2022-06-27 18:45:40.709 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:45:40.710 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:45:40.710 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:45:40.711 1 [error] <0.32162.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32162.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:45:40.713 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32161.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>],24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4993>,socket_mon =>
#Ref<0.155928093.3973054468.207262>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32162.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:45:40.713 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32162.0>,connection_down}
2022-06-27 18:45:49.403 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:45:50.712 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:45:50.951 1 [info] <0.32165.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:45:50.953 1 [info] <0.32165.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.32164.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:45:51.182 1 [error] <0.32164.0>@http2_client:handle_settings:822
gen_server <0.32164.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:45:51.184 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32165.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:45:51.184 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

```
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:45:51.184 1 [error] <0.32164.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.32164.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:45:51.184 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:45:51.184 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:45:51.185 1 [error] <0.32165.0>@Undefined:Undefined:Undefined
gen_server <0.32165.0> terminated with reason: connection_down
2022-06-27 18:45:51.185 1 [error] <0.32165.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32165.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:45:51.186 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32164.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4994>,socket_mon =>
#Ref<0.155928093.3973054468.207431>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32165.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 18:45:51.186 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32165.0>,connection_down}
2022-06-27 18:45:59.559 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:46:01.187 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:46:01.283 1 [info] <0.32169.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:46:01.284 1 [info] <0.32169.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.32168.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:46:01.375 1 [error]
<0.32168.0>@http2_client:handle_settings:822 gen_server <0.32168.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:46:01.376 1 [error]
<0.32168.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32168.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:46:01.376 1 [error] <0.32169.0>@Undefined:Undefined:Undefined
gen_server <0.32169.0> terminated with reason: connection_down
2022-06-27 18:46:01.377 1 [error] <0.32169.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32169.0> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:46:01.378 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32169.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:46:01.378 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:46:01.379 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:46:01.379 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:46:01.380 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32168.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4995>,socket_mon =>
```

```
#Ref<0.155928093.3973054468.207586>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32169.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 18:46:01.381 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32169.0>,connection_down}
2022-06-27 18:46:06.565 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:46:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:46:06.566 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:46:06
GMT">>,<<"txnb">> => 0}
2022-06-27 18:46:06.568 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4891,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:46:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:46:09.702 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:46:11.381 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:46:11.547 1 [info] <0.32172.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:46:11.548 1 [info] <0.32172.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"3.13.130.184">>,http_connection => <0.32171.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:46:11.713 1 [error] <0.32171.0>@http2_client:handle_settings:822
gen_server <0.32171.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:46:11.717 1 [error] <0.32171.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.32171.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:46:11.717 1 [error] <0.32172.0>@Undefined:Undefined:Undefined
gen_server <0.32172.0> terminated with reason: connection_down
2022-06-27 18:46:11.720 1 [error] <0.32172.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32172.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:46:11.728 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32172.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:46:11.729 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:46:11.730 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 18:46:11.730 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 18:46:11.734 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.32171.0>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{54, {<<":authority">>,<<"3.13.130.184">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.13.130.184",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.4996>,socket\_mon => #Ref<0.155928093.3973054468.207722>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.32172.0>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 18:46:11.735 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.32172.0>,connection\_down}  
2022-06-27 18:46:19.862 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 18:46:21.732 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.13.130.184": {gateway\_validators\_req\_v1\_pb,1}



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2022-06-27 18:46:21.893 1 [info] <0.32194.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:46:21.894 1 [info] <0.32194.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.32191.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:46:22.047 1 [error]
<0.32191.0>@http2_client:handle_settings:822 gen_server <0.32191.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:46:22.049 1 [error]
<0.32191.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32191.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:46:22.049 1 [error] <0.32194.0>@Undefined:Undefined:Undefined
gen_server <0.32194.0> terminated with reason: connection_down
2022-06-27 18:46:22.049 1 [error] <0.32194.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32194.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:46:22.050 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32194.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

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{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 18:46:22.051 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:46:22.051 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:46:22.051 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:46:22.053 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32191.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"3.13.130.184">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4997>,socket_mon =>
#Ref<0.155928093.3973316611.144755>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32194.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}
2022-06-27 18:46:22.053 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32194.0>,connection_down}
```

```
2022-06-27 18:46:30.012 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:46:32.054 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:46:32.326 1 [info] <0.32203.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:46:32.327 1 [info] <0.32203.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.32202.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:46:32.594 1 [error]
<0.32202.0>@http2_client:handle_settings:822 gen_server <0.32202.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:46:32.596 1 [error]
<0.32202.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32202.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:46:32.596 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32203.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:46:32.596 1 [error]
<0.32203.0>@Undefined:Undefined:Undefined gen_server <0.32203.0>
terminated with reason: connection_down
2022-06-27 18:46:32.596 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:46:32.596 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:46:32.597 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:46:32.597 1 [error] <0.32203.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32203.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:46:32.598 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32202.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{55,
{<<":authority">>,<<"13.209.94.225">>}],{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4998>,socket_mon =>
#Ref<0.155928093.3973054468.208139>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32203.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:46:32.598 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32203.0>,connection_down}
2022-06-27 18:46:36.570 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:46:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:46:36.571 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:46:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:46:36.573 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4895,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:46:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:46:40.166 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:46:42.599 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:46:43.848 1 [info] <0.32206.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:46:43.850 1 [info] <0.32206.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.32205.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 18:46:44.083 1 [error]
<0.32205.0>@http2_client:handle_settings:822 gen_server <0.32205.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:46:44.083 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32206.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:46:44.084 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:46:44.084 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:46:44.085 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:46:44.086 1 [error]
<0.32205.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32205.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:46:44.086 1 [error]
<0.32206.0>@Undefined:Undefined:Undefined gen_server <0.32206.0>
terminated with reason: connection_down
2022-06-27 18:46:44.087 1 [error]
<0.32206.0>@Undefined:Undefined:Undefined CRASH REPORT Process
```

```
<0.32206.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:46:44.088 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32205.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.215.75.202">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.4999>,socket_mon =>
#Ref<0.155928093.3973054468.208301>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32206.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:46:44.089 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32206.0>,connection_down}
2022-06-27 18:46:50.319 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:46:54.088 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:46:54.362 1 [info] <0.32209.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:46:54.363 1 [info] <0.32209.0>@grpc_client_stream_custom:init:
```

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.32208.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:46:54.636 1 [error]
<0.32208.0>@http2_client:handle_settings:822 gen_server <0.32208.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:46:54.637 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32209.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:46:54.637 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:46:54.638 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:46:54.638 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:46:54.638 1 [error]
<0.32208.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32208.0> with 0 neighbours crashed with reason: no function clause matching
```



```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:46:54.638 1 [error]
<0.32209.0>@Undefined:Undefined:Undefined gen_server <0.32209.0>
terminated with reason: connection_down
2022-06-27 18:46:54.639 1 [error]
<0.32209.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.32209.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:46:54.640 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32208.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5000>,socket_mon =>
#Ref<0.155928093.3973054468.208493>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32209.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:46:54.640 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32209.0>,connection_down}
2022-06-27 18:47:00.465 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:47:04.640 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:47:05.988 1 [info] <0.32212.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:47:05.990 1 [info] <0.32212.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.32211.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:47:06.318 1 [error] <0.32211.0>@http2_client:handle_settings:822
gen_server <0.32211.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:47:06.319 1 [error] <0.32211.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.32211.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:47:06.319 1 [error] <0.32212.0>@Undefined:Undefined:Undefined
gen_server <0.32212.0> terminated with reason: connection_down
2022-06-27 18:47:06.320 1 [error] <0.32212.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32212.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:47:06.321 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32212.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:47:06.321 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:47:06.323 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:47:06.323 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:47:06.326 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32211.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5001>,socket_mon =>
#Ref<0.155928093.3973054468.208647>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32212.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 18:47:06.326 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32212.0>,connection_down}
2022-06-27 18:47:06.564 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:47:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:47:06.564 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:47:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:47:06.565 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4899,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:47:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:47:10.612 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:47:16.326 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:47:16.554 1 [info] <0.32215.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:47:16.555 1 [info] <0.32215.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.32214.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:47:17.992 1 [error] <0.32214.0>@http2_client:handle_settings:822
gen_server <0.32214.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 18:47:17.993 1 [error] <0.32214.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.32214.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 18:47:17.993 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32215.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:47:17.993 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:47:17.993 1 [error] <0.32215.0>@Undefined:Undefined:Undefined
gen_server <0.32215.0> terminated with reason: connection_down
2022-06-27 18:47:17.993 1 [error] <0.32215.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32215.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:47:17.994 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:47:17.994 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:47:17.995 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32214.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5002>,socket_mon =>
#Ref<0.155928093.3974103041.39313>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32215.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 18:47:17.996 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32215.0>,connection_down}
2022-06-27 18:47:20.765 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:47:21.666 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1639.0>
2022-06-27 18:47:27.996 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:47:28.277 1 [info] <0.32249.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:47:28.278 1 [info] <0.32249.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.32248.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:47:28.550 1 [error]
<0.32248.0>@http2_client:handle_settings:822 gen_server <0.32248.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:47:28.551 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32249.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:47:28.551 1 [error]
<0.32248.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32248.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:47:28.551 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:47:28.552 1 [error] <0.32249.0>@Undefined:Undefined:Undefined
gen_server <0.32249.0> terminated with reason: connection_down
2022-06-27 18:47:28.552 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:47:28.552 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
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validator failed: {error,req_failed}
2022-06-27 18:47:28.552 1 [error] <0.32249.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32249.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:47:28.553 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32248.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5008>,socket_mon =>
#Ref<0.155928093.3974103041.39377>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32249.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 18:47:28.553 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32249.0>,connection_down}
2022-06-27 18:47:30.916 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:47:36.566 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:47:36 GMT">>,<<"txnb">> => 0}} from
```



12291671073248440251 on 35152

```
2022-06-27 18:47:36.566 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:47:36 GMT">>,<<"txnb">> => 0}
```

```
2022-06-27 18:47:36.567 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4903,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:47:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
```

```
2022-06-27 18:47:38.554 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
```

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 18:47:38.720 1 [info] <0.32261.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 18:47:38.723 1 [info] <0.32261.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"3.131.232.233">>,http_connection => <0.32260.0>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 18:47:38.879 1 [error]
```

```
<0.32260.0>@http2_client:handle_settings:822 gen_server <0.32260.0>
```

```
terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 18:47:38.880 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.32261.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:47:38.880 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:47:38.880 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:47:38.880 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:47:38.881 1 [error]
<0.32260.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32260.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:47:38.881 1 [error] <0.32261.0>@Undefined:Undefined:Undefined
gen_server <0.32261.0> terminated with reason: connection_down
2022-06-27 18:47:38.881 1 [error] <0.32261.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32261.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:47:38.882 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32260.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5009>,socket_mon =>
#Ref<0.155928093.3974103041.39433>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32261.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:47:38.882 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32261.0>,connection_down}
2022-06-27 18:47:41.062 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:47:48.883 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:47:49.220 1 [info] <0.32264.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:47:49.221 1 [info] <0.32264.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.32263.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:47:49.553 1 [error]
<0.32263.0>@http2_client:handle_settings:822 gen_server <0.32263.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:47:49.555 1 [error]
<0.32263.0>@http2_client:handle_settings:822 CRASH REPORT Process
```

```
<0.32263.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:47:49.559 1 [error] <0.32264.0>@Undefined:Undefined:Undefined
gen_server <0.32264.0> terminated with reason: connection_down
2022-06-27 18:47:49.559 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32264.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:47:49.560 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:47:49.560 1 [error]
<0.32264.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.32264.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:47:49.560 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:47:49.561 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:47:49.563 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32263.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"13.237.155.172">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5010>,socket_mon =>
#Ref<0.155928093.3974103041.39506>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32264.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 18:47:49.564 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32264.0>,connection_down}
2022-06-27 18:47:51.209 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:47:59.563 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:47:59.838 1 [info] <0.32267.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:47:59.839 1 [info] <0.32267.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.32266.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:48:00.102 1 [error]
```

```
<0.32266.0>@http2_client:handle_settings:822 gen_server <0.32266.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:48:00.102 1 [error]
<0.32266.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32266.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:48:00.104 1 [error] <0.32267.0>@Undefined:Undefined:Undefined
gen_server <0.32267.0> terminated with reason: connection_down
2022-06-27 18:48:00.105 1 [error] <0.32267.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32267.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:48:00.105 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32267.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:48:00.105 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:48:00.105 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:48:00.106 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:48:00.107 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32266.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5011>,socket_mon =>
#Ref<0.155928093.3973054468.209652>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32267.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 18:48:00.108 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32267.0>,connection_down}
2022-06-27 18:48:01.369 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:48:06.575 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:48:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:48:06.576 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:48:06 GMT">>,<<"txnb">> => 0}
```

```
2022-06-27 18:48:06.577 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4907,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:48:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:48:10.108 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:48:10.194 1 [info] <0.32270.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:48:10.196 1 [info] <0.32270.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.32269.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:48:10.270 1 [error]
<0.32269.0>@http2_client:handle_settings:822 gen_server <0.32269.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:48:10.271 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32270.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```



```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 18:48:10.272 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:48:10.272 1 [error]
<0.32269.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32269.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:48:10.272 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:48:10.272 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:48:10.273 1 [error] <0.32270.0>@Undefined:Undefined:Undefined
gen_server <0.32270.0> terminated with reason: connection_down
2022-06-27 18:48:10.273 1 [error] <0.32270.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32270.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:48:10.273 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32269.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5012>,socket_mon =>
#Ref<0.155928093.3973054468.209804>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32270.0>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 18:48:10.274 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32270.0>,connection_down}
2022-06-27 18:48:11.519 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:48:12.559 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11yJRnYb9fA5cjTW7U6LYJpgKZzmRX8JYzMWDHbwYd21sjB7u72" informed us of
our observed address "/ip4/80.77.186.186/tcp/17287"
2022-06-27 18:48:20.274 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:48:20.435 1 [info] <0.32289.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:48:20.435 1 [info] <0.32289.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.32288.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:48:20.589 1 [error]
<0.32288.0>@http2_client:handle_settings:822 gen_server <0.32288.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:48:20.591 1 [error]
<0.32288.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32288.0> with 0 neighbours crashed with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:48:20.591 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32289.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:48:20.591 1 [error] <0.32289.0>@Undefined:Undefined:Undefined
gen_server <0.32289.0> terminated with reason: connection_down
2022-06-27 18:48:20.591 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:48:20.592 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:48:20.592 1 [error]
<0.32289.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.32289.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:48:20.592 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:48:20.593 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32288.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"3.132.190.192">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5018>,socket_mon =>
#Ref<0.155928093.3973054468.210018>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32289.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:48:20.593 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32289.0>,connection_down}
2022-06-27 18:48:21.659 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:48:30.595 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:48:30.872 1 [info] <0.32299.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:48:30.874 1 [info] <0.32299.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.32296.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:48:31.146 1 [error]
<0.32296.0>@http2_client:handle_settings:822 gen_server <0.32296.0>
```

```
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:48:31.147 1 [error]
<0.32296.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32296.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:48:31.147 1 [error] <0.32299.0>@Undefined:Undefined:Undefined
gen_server <0.32299.0> terminated with reason: connection_down
2022-06-27 18:48:31.148 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32299.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:48:31.148 1 [error] <0.32299.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32299.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:48:31.148 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:48:31.149 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:48:31.149 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:48:31.150 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.32296.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5019>,socket_mon =>
#Ref<0.155928093.3973578754.25740>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32299.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:48:31.151 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32299.0>,connection_down}
2022-06-27 18:48:31.805 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:48:36.575 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:48:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:48:36.577 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:48:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:48:36.580 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
```

```
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4911,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:48:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:48:41.151 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:48:41.390 1 [info] <0.32320.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:48:41.392 1 [info] <0.32320.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.32319.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:48:41.622 1 [error]
<0.32319.0>@http2_client:handle_settings:822 gen_server <0.32319.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:48:41.623 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32320.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

2022-06-27 18:48:41.624 1 [error]  
<0.32319.0>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.32319.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 18:48:41.624 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 18:48:41.624 1 [error] <0.32320.0>@Undefined:Undefined:Undefined  
gen\_server <0.32320.0> terminated with reason: connection\_down  
2022-06-27 18:48:41.624 1 [error] <0.32320.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.32320.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:48:41.625 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 18:48:41.626 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:48:41.627 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.32319.0>,{function\_clause,  
[http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,  
{<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "13.215.29.4",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5020>,socket\_mon =>  
#Ref<0.155928093.3973578754.25825>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.32320.0>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>



```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 18:48:41.627 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32320.0>,connection_down}
2022-06-27 18:48:41.946 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:48:51.628 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:48:51.962 1 [info] <0.32323.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:48:51.963 1 [info] <0.32323.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.32322.0>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:48:52.096 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:48:52.296 1 [error]
<0.32322.0>@http2_client:handle_settings:822 gen_server <0.32322.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:48:52.296 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32323.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}]],{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:48:52.297 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:48:52.297 1 [error]
<0.32322.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32322.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:48:52.298 1 [error]
<0.32323.0>@Undefined:Undefined:Undefined gen_server <0.32323.0>
terminated with reason: connection_down
2022-06-27 18:48:52.298 1 [error]
<0.32323.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.32323.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:48:52.299 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:48:52.299 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:48:52.300 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32322.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>, <<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>, <<"application/grpc+proto">>}}, {55,
{<<":authority">>, <<"13.211.55.217">>}}, {63, {<<":path">>, <<"/helium.gateway/
validators">>}}}], host => "13.211.55.217", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.5021>, socket_mon =>
#Ref<0.155928093.3973578754.25904>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.32323.0>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}], [{file, "http2_client.erl"}, {line, 822}],
{http2_client, handle_packet, 2, [{file, "http2_client.erl"}, {line, 648}]},
{gen_server, try_dispatch, 4, [{file, "gen_server.erl"}, {line, 695}]},
{gen_server, handle_msg, 6, [{file, "gen_server.erl"}, {line, 771}]},
{proc_lib, init_p_do_apply, 3, [{file, "proc_lib.erl"}, {line, 226}]}}]
2022-06-27 18:48:52.301 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT', <0.32323.0>, connection_down}
2022-06-27 18:49:02.238 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:49:02.302 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb, 1}
2022-06-27 18:49:02.574 1 [info] <0.32326.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:49:02.575 1 [info] <0.32326.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>, compression =>
none, connection => #{client => http2_client, host =>
<<"18.230.8.198">>, http_connection => <0.32325.0>, scheme =>
<<"http">>}, encoder => gateway_miner_client_pb, headers_sent => false, input =>
gateway_validators_req_v1_pb, input_stream => false, metadata => #{}}, name =>
validators, opts => [], output => gateway_resp_v1_pb, output_stream =>
false, package => [], queue => {[], []}, response_pending => false, rpc =>
validators, service => 'helium.gateway', state => idle, stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:49:02.848 1 [error]
<0.32325.0>@http2_client:handle_settings:822 gen_server <0.32325.0>
terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:49:02.852 1 [error]
<0.32325.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32325.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:49:02.853 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32326.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:49:02.853 1 [error]
<0.32326.0>@Undefined:Undefined:Undefined gen_server <0.32326.0>
terminated with reason: connection_down
2022-06-27 18:49:02.853 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:49:02.854 1 [error]
<0.32326.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.32326.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:49:02.855 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:49:02.855 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:49:02.859 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32325.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5022>,socket_mon =>
#Ref<0.155928093.3973578754.26048>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32326.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:49:02.861 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32326.0>,connection_down}
2022-06-27 18:49:06.573 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:49:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:49:06.574 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:49:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:49:06.576 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=4915,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:49:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:49:12.382 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:49:12.858 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:49:13.193 1 [info] <0.32330.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:49:13.196 1 [info] <0.32330.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.32329.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:49:13.524 1 [error]
<0.32329.0>@http2_client:handle_settings:822 gen_server <0.32329.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:49:13.525 1 [error]
<0.32329.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32329.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:49:13.526 1 [error] <0.32330.0>@Undefined:Undefined:Undefined
gen_server <0.32330.0> terminated with reason: connection_down
2022-06-27 18:49:13.527 1 [error] <0.32330.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32330.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:49:13.529 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.32330.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:49:13.530 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:49:13.531 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:49:13.531 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:49:13.535 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32329.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5023>,socket_mon =>
#Ref<0.155928093.3973578754.26155>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32330.0>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:49:13.536 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32330.0>,connection_down}
2022-06-27 18:49:22.532 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:49:23.396 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 4,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAELO/iOALdvAILAfVG88NZRrImTU5mDFpEsViX/
vuBXx4LWpHgTHCYMkVRH/rBJig==">>,<<"datr">> =>
<<"SF12BW125">>,<<"foff">> => 362,<<"freq">> => 867.3,<<"jver">> =>
1,<<"lsnr">> => -8.2,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 0,<<"rssi">> => -109,<<"rssi">> => -116,<<"size">> => 52,<<"stat">> =>
1,<<"tmst">> => 2919397808}}] from 12291671073248440251 on 35152
2022-06-27 18:49:23.534 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:49:23.803 1 [info] <0.32338.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:49:23.804 1 [info] <0.32338.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.32337.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:49:24.072 1 [error]
<0.32337.0>@http2_client:handle_settings:822 gen_server <0.32337.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```



```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 18:49:24.073 1 [error]
<0.32337.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32337.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 18:49:24.074 1 [error] <0.32338.0>@Undefined:Undefined:Undefined
gen_server <0.32338.0> terminated with reason: connection_down
2022-06-27 18:49:24.075 1 [error] <0.32338.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32338.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:49:24.075 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32338.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:49:24.075 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:49:24.076 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:49:24.076 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:49:24.078 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32337.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5024>,socket_mon =>
#Ref<0.155928093.3973578754.26300>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32338.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}
2022-06-27 18:49:24.078 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32338.0>,connection_down}
2022-06-27 18:49:26.128 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 0,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"AE4AAPB+1bNwtDIAACBX+YyJm4TZmtk=">>,<<"datr">> =>
<<"SF7BW125">>,<<"foff">> => 7523,<<"freq">> => 868.1,<<"jver">> =>
1,<<"lsnr">> => -9.2,<<"mid">> => 8,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 1,<<"rssi">> => -110,<<"rssi_s">> => -119,<<"size">> => 23,<<"stat">> =>
1,<<"tmst">> => 2922136261}}} from 12291671073248440251 on 35152
2022-06-27 18:49:32.689 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:49:32.955 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112R2HYvGELfZyZdQV1QGRXD87hR6tSuqtQfKQ8SaHn48FpCp9Sy" informed us
of our observed address "/ip4/80.77.186.186/tcp/33758"
2022-06-27 18:49:34.079 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

```
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:49:34.355 1 [info] <0.32361.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:49:34.356 1 [info] <0.32361.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.32359.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:49:34.628 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32361.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:49:34.628 1 [error]
<0.32359.0>@http2_client:handle_settings:822 gen_server <0.32359.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:49:34.629 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:49:34.630 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:49:34.630 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:49:34.630 1 [error]
<0.32359.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32359.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:49:34.631 1 [error] <0.32361.0>@Undefined:Undefined:Undefined
gen_server <0.32361.0> terminated with reason: connection_down
2022-06-27 18:49:34.631 1 [error] <0.32361.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32361.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:49:34.634 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32359.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5030>,socket_mon =>
#Ref<0.155928093.3973578754.26441>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32361.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 18:49:34.634 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32361.0>,connection_down}
2022-06-27 18:49:36.576 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
2,<<"rxnb">> => 2,<<"rxok">> => 2,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:49:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:49:36.578 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
2,<<"rxnb">> => 2,<<"rxok">> => 2,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:49:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:49:36.579 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4919,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 2,<<"rxnb">> => 2,<<"rxok">> => 2,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:49:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:49:38.537 1 [warning]
<0.1643.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
112RESRxyrWKRq9xka3feGnkJoq1RnDPxGDr53B2NvrMDk1rYw8c": {exit,{normal,
{gen_server,call,[<0.31737.0>,open]}}}
2022-06-27 18:49:42.822 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:49:44.633 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:49:44.800 1 [info] <0.32383.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:49:44.802 1 [info] <0.32383.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.32382.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:49:44.958 1 [error]
<0.32382.0>@http2_client:handle_settings:822 gen_server <0.32382.0>
```

```
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:49:44.959 1 [error]
<0.32382.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32382.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:49:44.959 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32383.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:49:44.959 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:49:44.960 1 [error]
<0.32383.0>@Undefined:Undefined:Undefined gen_server <0.32383.0>
terminated with reason: connection_down
2022-06-27 18:49:44.960 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:49:44.960 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:49:44.960 1 [error]
<0.32383.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.32383.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
```

2022-06-27 18:49:44.962 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32382.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5031>,socket_mon =>
#Ref<0.155928093.3973054468.211530>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32383.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 18:49:44.963 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32383.0>,connection_down}
```

2022-06-27 18:49:52.975 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 18:49:54.962 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
```

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 18:49:55.237 1 [info] <0.32386.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 18:49:55.239 1 [info] <0.32386.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"54.207.131.103">>,http_connection => <0.32385.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:49:55.497 1 [error]
<0.32385.0>@http2_client:handle_settings:822 gen_server <0.32385.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:49:55.499 1 [error]
<0.32385.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32385.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:49:55.500 1 [error]
<0.32386.0>@Undefined:Undefined:Undefined gen_server <0.32386.0>
terminated with reason: connection_down
2022-06-27 18:49:55.500 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32386.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:49:55.500 1 [error]
<0.32386.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.32386.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:49:55.500 1 [info]
```



```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:49:55.501 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:49:55.501 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:49:55.505 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32385.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5032>,socket_mon =>
#Ref<0.155928093.3974103041.39986>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32386.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:49:55.506 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32386.0>,connection_down}
2022-06-27 18:50:03.122 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 18:50:05.504 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:50:05.734 1 [info] <0.32389.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:50:05.736 1 [info] <0.32389.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.32388.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:50:05.959 1 [error]
<0.32388.0>@http2_client:handle_settings:822 gen_server <0.32388.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:50:05.960 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32389.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:50:05.961 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:50:05.961 1 [error]
<0.32388.0>@http2_client:handle_settings:822 CRASH REPORT Process
```

```
<0.32388.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:50:05.961 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:50:05.961 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:50:05.962 1 [error]
<0.32389.0>@Undefined:Undefined:Undefined gen_server <0.32389.0>
terminated with reason: connection_down
2022-06-27 18:50:05.962 1 [error]
<0.32389.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.32389.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:50:05.963 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32388.0>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5033>,socket_mon =>
#Ref<0.155928093.3974103041.40016>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32389.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:50:05.963 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32389.0>,connection_down}
2022-06-27 18:50:06.580 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:50:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:50:06.581 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:50:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:50:06.582 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4923,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:50:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:50:13.275 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:50:15.964 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:50:16.055 1 [info] <0.32392.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:50:16.056 1 [info] <0.32392.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.32391.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:50:16.139 1 [error] <0.32391.0>@http2_client:handle_settings:822
gen_server <0.32391.0> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:50:16.140 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32392.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:50:16.140 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:50:16.141 1 [error] <0.32391.0>@http2_client:handle_settings:822
CRASH REPORT Process <0.32391.0> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:50:16.141 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:50:16.141 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:50:16.141 1 [error] <0.32392.0>@Undefined:Undefined:Undefined
gen_server <0.32392.0> terminated with reason: connection_down
2022-06-27 18:50:16.141 1 [error] <0.32392.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32392.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:50:16.143 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32391.0>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5034>,socket_mon =>
#Ref<0.155928093.3974103041.40065>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32392.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:50:16.143 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32392.0>,connection_down}
2022-06-27 18:50:23.416 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:50:25.152 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11ty48DRDyLz1bPxLKnbp5F1uteevfZdjUac8PE1YVimAe6HYgJ" informed us of our
observed address "/ip4/80.77.186.186/tcp/27786"
2022-06-27 18:50:26.144 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:50:26.234 1 [info] <0.32416.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:50:26.235 1 [info] <0.32416.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
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<<"52.30.1.39">>,http_connection => <0.32415.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:50:26.320 1 [error]
<0.32415.0>@http2_client:handle_settings:822 gen_server <0.32415.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:50:26.322 1 [error]
<0.32415.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32415.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:50:26.323 1 [error] <0.32416.0>@Undefined:Undefined:Undefined
gen_server <0.32416.0> terminated with reason: connection_down
2022-06-27 18:50:26.324 1 [error] <0.32416.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32416.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:50:26.326 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32416.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:50:26.327 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
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<<"stream create failed">>}}
2022-06-27 18:50:26.328 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:50:26.328 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:50:26.332 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32415.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5040>,socket_mon =>
#Ref<0.155928093.3974103041.40188>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32416.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}}
2022-06-27 18:50:26.332 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32416.0>,connection_down}
2022-06-27 18:50:33.555 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:50:36.331 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```



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unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:50:36.414 1 [info] <0.32420.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:50:36.416 1 [info] <0.32420.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.32419.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:50:36.488 1 [error]
<0.32419.0>@http2_client:handle_settings:822 gen_server <0.32419.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:50:36.489 1 [error]
<0.32419.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32419.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:50:36.490 1 [error]
<0.32420.0>@Undefined:Undefined:Undefined gen_server <0.32420.0>
terminated with reason: connection_down
2022-06-27 18:50:36.490 1 [error]
<0.32420.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.32420.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:50:36.492 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32420.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
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{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:50:36.492 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:50:36.492 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:50:36.492 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:50:36.494 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32419.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5041>,socket_mon =>
#Ref<0.155928093.3974103041.40325>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32420.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 18:50:36.496 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32420.0>,connection_down}
2022-06-27 18:50:36.575 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:50:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:50:36.575 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:50:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:50:36.576 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4927,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:50:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:50:43.699 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:50:46.495 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:50:46.773 1 [info] <0.32445.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:50:46.774 1 [info] <0.32445.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.32444.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:50:47.044 1 [error]
<0.32444.0>@http2_client:handle_settings:822 gen_server <0.32444.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:50:47.045 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32445.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:50:47.046 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:50:47.046 1 [error]
<0.32444.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32444.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:50:47.047 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:50:47.047 1 [error] <0.32445.0>@Undefined:Undefined:Undefined
gen_server <0.32445.0> terminated with reason: connection_down
2022-06-27 18:50:47.047 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:50:47.047 1 [error] <0.32445.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32445.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:50:47.049 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32444.0>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"13.125.32.225">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5042>,socket_mon =>
#Ref<0.155928093.3974103041.40467>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32445.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:50:47.049 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32445.0>,connection_down}
2022-06-27 18:50:53.865 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:50:57.050 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:50:57.131 1 [info] <0.32451.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:50:57.132 1 [info] <0.32451.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.32450.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]}],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:50:57.212 1 [error]
<0.32450.0>@http2_client:handle_settings:822 gen_server <0.32450.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:50:57.213 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32451.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:50:57.213 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:50:57.214 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:50:57.214 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:50:57.216 1 [error]
<0.32450.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32450.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:50:57.216 1 [error] <0.32451.0>@Undefined:Undefined:Undefined
gen_server <0.32451.0> terminated with reason: connection_down
```

```
2022-06-27 18:50:57.217 1 [error] <0.32451.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32451.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:50:57.217 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32450.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5043>,socket_mon =>
#Ref<0.155928093.3974103041.40776>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32451.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:50:57.217 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32451.0>,connection_down}
2022-06-27 18:51:04.012 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:51:06.586 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:51:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

```
2022-06-27 18:51:06.588 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:51:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:51:06.590 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4931,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:51:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:51:07.217 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:51:07.493 1 [info] <0.32454.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:51:07.495 1 [info] <0.32454.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.32453.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:51:07.762 1 [error] <0.32453.0>@http2_client:handle_settings:822
gen_server <0.32453.0> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:51:07.762 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32454.0>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```



```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:51:07.763 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:51:07.763 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:51:07.763 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:51:07.764 1 [error]
<0.32453.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32453.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:51:07.764 1 [error] <0.32454.0>@Undefined:Undefined:Undefined
gen_server <0.32454.0> terminated with reason: connection_down
2022-06-27 18:51:07.765 1 [error] <0.32454.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32454.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:51:07.765 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32453.0>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"18.230.8.198">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5044>,socket_mon =>
#Ref<0.155928093.3974103041.40936>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32454.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 18:51:07.765 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32454.0>,connection_down}
2022-06-27 18:51:14.155 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:51:17.765 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:51:17.933 1 [info] <0.32457.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:51:17.935 1 [info] <0.32457.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.32456.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:51:18.092 1 [error]
<0.32456.0>@http2_client:handle_settings:822 gen_server <0.32456.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:51:18.094 1 [error]
<0.32456.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32456.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 18:51:18.095 1 [error] <0.32457.0>@Undefined:Undefined:Undefined
gen_server <0.32457.0> terminated with reason: connection_down
2022-06-27 18:51:18.095 1 [error] <0.32457.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32457.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:51:18.095 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32457.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:51:18.096 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:51:18.096 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:51:18.096 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:51:18.097 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32456.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
```

```
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5045>,socket_mon =>
#Ref<0.155928093.3974103041.41113>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.32457.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:51:18.098 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32457.0>,connection_down}
2022-06-27 18:51:24.315 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:51:28.099 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:51:34.449 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:51:36.589 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:51:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:51:36.590 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:51:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:51:36.592 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4935,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
```

```
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:51:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:51:44.619 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:51:54.765 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:51:58.103 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}]
2022-06-27 18:51:58.103 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:51:58.104 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32462.0>,timeout}
2022-06-27 18:51:58.104 1 [error] <0.32462.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32462.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 18:52:04.912 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:52:06.590 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:52:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:52:06.590 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:52:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:52:06.592 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=4939,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:52:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:52:08.105 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:52:08.198 1 [info] <0.32497.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:52:08.202 1 [info] <0.32497.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.32496.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:52:08.282 1 [error]
<0.32496.0>@http2_client:handle_settings:822 gen_server <0.32496.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:52:08.282 1 [error]
<0.32496.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32496.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:52:08.283 1 [error] <0.32497.0>@Undefined:Undefined:Undefined
gen_server <0.32497.0> terminated with reason: connection_down
2022-06-27 18:52:08.284 1 [error] <0.32497.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32497.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:52:08.285 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32497.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 18:52:08.285 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:52:08.285 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:52:08.286 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:52:08.287 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32496.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5047>,socket_mon =>
#Ref<0.155928093.3974103041.41747>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.32497.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:52:08.288 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32497.0>,connection_down}
2022-06-27 18:52:15.065 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:52:18.289 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:52:18.379 1 [info] <0.32500.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:52:18.380 1 [info] <0.32500.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.32499.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:52:18.466 1 [error]
<0.32499.0>@http2_client:handle_settings:822 gen_server <0.32499.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:52:18.469 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32500.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```



```
{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 18:52:18.469 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:52:18.470 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:52:18.470 1 [error]
<0.32499.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32499.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:52:18.470 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:52:18.471 1 [error] <0.32500.0>@Undefined:Undefined:Undefined
gen_server <0.32500.0> terminated with reason: connection_down
2022-06-27 18:52:18.473 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32499.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5048>,socket_mon =>
#Ref<0.155928093.3974103041.41883>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.32500.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl",{line,226}}}}}}
2022-06-27 18:52:18.474 1 [error] <0.32500.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32500.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:52:18.474 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32500.0>,connection_down}
2022-06-27 18:52:21.666 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1643.0>
2022-06-27 18:52:25.208 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:52:28.473 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:52:28.803 1 [info] <0.32507.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:52:28.805 1 [info] <0.32507.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.32505.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:52:29.131 1 [error]
<0.32505.0>@http2_client:handle_settings:822 gen_server <0.32505.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 18:52:29.133 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.32507.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]}

2022-06-27 18:52:29.133 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 18:52:29.133 1 [error]

<0.32505.0>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.32505.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 18:52:29.134 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 18:52:29.134 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 18:52:29.135 1 [error] <0.32507.0>@Undefined:Undefined:Undefined  
gen\_server <0.32507.0> terminated with reason: connection\_down

2022-06-27 18:52:29.136 1 [error] <0.32507.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.32507.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 18:52:29.135 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.32505.0>,{function\_clause,  
[{"http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>

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16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5049>,socket_mon =>
#Ref<0.155928093.3973316611.146187>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32507.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:52:29.136 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32507.0>,connection_down}
2022-06-27 18:52:35.356 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:52:36.586 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:52:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:52:36.587 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:52:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:52:36.588 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4943,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:52:36 GMT">>,<<"txnb">> =>
```

```
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:52:39.137 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:52:39.365 1 [info] <0.32514.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:52:39.366 1 [info] <0.32514.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.32513.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:52:39.586 1 [error]
<0.32513.0>@http2_client:handle_settings:822 gen_server <0.32513.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:52:39.588 1 [error]
<0.32513.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32513.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:52:39.589 1 [error] <0.32514.0>@Undefined:Undefined:Undefined
gen_server <0.32514.0> terminated with reason: connection_down
2022-06-27 18:52:39.589 1 [error] <0.32514.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32514.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:52:39.589 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32514.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

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[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:52:39.590 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:52:39.590 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:52:39.591 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:52:39.592 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32513.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"54.70.239.5">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5050>,socket_mon =>
#Ref<0.155928093.3973316611.146243>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32514.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 18:52:39.593 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32514.0>,connection_down}
2022-06-27 18:52:40.525 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 1,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAEnH9V7AJDLAP0pwnT1SrdKkfe5lnsslgmE0jOrBlwdZmcf8dGA8+rm4H
87ghl52w==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> => 292,<<"freq">>
=> 868.3,<<"jver">> => 1,<<"lsnr">> => -23.2,<<"mid">> => 0,<<"modu">> =>
<<"LORA">>,<<"rfch">> => 1,<<"rssi">> => -109,<<"rssi">> => -131,<<"size">>
=> 52,<<"stat">> => 1,<<"tmst">> => 3116520558}}} from
12291671073248440251 on 35152
2022-06-27 18:52:45.506 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:52:49.594 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:52:49.931 1 [info] <0.32523.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:52:49.933 1 [info] <0.32523.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.32522.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:52:50.260 1 [error]
<0.32522.0>@http2_client:handle_settings:822 gen_server <0.32522.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:52:50.261 1 [error]
<0.32522.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32522.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:52:50.262 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32523.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:52:50.262 1 [error] <0.32523.0>@Undefined:Undefined:Undefined
gen_server <0.32523.0> terminated with reason: connection_down
2022-06-27 18:52:50.262 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:52:50.262 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:52:50.262 1 [error] <0.32523.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32523.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:52:50.262 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:52:50.264 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32522.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```



```
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5051>,socket_mon =>
#Ref<0.155928093.3973316611.146317>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32523.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]]}]
2022-06-27 18:52:50.265 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32523.0>,connection_down}
2022-06-27 18:52:55.642 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:53:00.265 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:53:05.795 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:53:06.589 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:53:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:53:06.590 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:53:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:53:06.591 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=4947,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:53:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:53:15.929 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:53:26.089 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:53:30.269 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}}]
2022-06-27 18:53:30.270 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:53:30.271 1 [error] <0.32544.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32544.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 18:53:30.271 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32544.0>,timeout}
2022-06-27 18:53:36.242 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:53:36.592 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:53:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:53:36.592 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:53:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:53:36.594 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
```

```
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4951,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:53:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:53:40.273 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:53:40.545 1 [info] <0.32552.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:53:40.546 1 [info] <0.32552.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.32551.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:53:40.812 1 [error]
<0.32551.0>@http2_client:handle_settings:822 gen_server <0.32551.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:53:40.813 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32552.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 18:53:40.813 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:53:40.814 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:53:40.814 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:53:40.816 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32551.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5053>,socket_mon =>
#Ref<0.155928093.3973316611.146470>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32552.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:53:40.817 1 [error]
<0.32551.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32551.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 18:53:40.817 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32552.0>,connection_down}
2022-06-27 18:53:40.818 1 [error] <0.32552.0>@Undefined:Undefined:Undefined
gen_server <0.32552.0> terminated with reason: connection_down
2022-06-27 18:53:40.819 1 [error] <0.32552.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32552.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:53:46.379 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:53:50.817 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:53:51.047 1 [info] <0.32556.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:53:51.047 1 [info] <0.32556.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.32555.0>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:53:51.275 1 [error]
<0.32555.0>@http2_client:handle_settings:822 gen_server <0.32555.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 18:53:51.275 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32556.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 18:53:51.275 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:53:51.275 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:53:51.275 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:53:51.276 1 [error]
<0.32555.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32555.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:53:51.276 1 [error] <0.32556.0>@Undefined:Undefined:Undefined
gen_server <0.32556.0> terminated with reason: connection_down
2022-06-27 18:53:51.277 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32555.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{55,
{<<":authority">>,<<"52.89.130.114">>}],{63,<<":path">>,<<"/helium.gateway/
validators">>}}]],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5054>,socket_mon =>
```

```
#Ref<0.155928093.3973316611.146509>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32556.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 18:53:51.277 1 [error] <0.32556.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32556.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:53:51.277 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32556.0>,connection_down}
2022-06-27 18:53:56.515 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:54:01.278 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:54:01.361 1 [info] <0.32573.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:54:01.363 1 [info] <0.32573.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.32570.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:54:01.440 1 [error]
<0.32570.0>@http2_client:handle_settings:822 gen_server <0.32570.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:54:01.442 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32573.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:54:01.442 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:54:01.443 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:54:01.443 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:54:01.443 1 [error]
<0.32570.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32570.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:54:01.444 1 [error] <0.32573.0>@Undefined:Undefined:Undefined
gen_server <0.32573.0> terminated with reason: connection_down
2022-06-27 18:54:01.444 1 [error] <0.32573.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32573.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:54:01.445 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32570.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```



```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5055>,socket_mon =>
#Ref<0.155928093.3973316611.146596>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32573.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:54:01.445 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32573.0>,connection_down}
2022-06-27 18:54:06.590 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:54:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:54:06.591 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:54:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:54:06.592 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4954,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:54:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:54:06.662 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 18:54:11.446 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:54:11.711 1 [info] <0.32586.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:54:11.712 1 [info] <0.32586.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.32585.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:54:11.978 1 [error]
<0.32585.0>@http2_client:handle_settings:822 gen_server <0.32585.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:54:11.979 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32586.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:54:11.979 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:54:11.980 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 18:54:11.980 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:54:11.981 1 [error] <0.32585.0>@http2\_client:handle\_settings:822

CRASH REPORT Process <0.32585.0> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 18:54:11.981 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.32585.0>,{function\_clause, [{http2\_client,handle\_settings,

[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[[42,

{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,

{<<"content-type">>,<<"application/grpc+proto">>}},{54,

{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/

validators">>}}],host => "18.230.8.198",last\_stream => 1,owner =>

<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size

=> 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},server\_window => 65528,socket => #Port<0.5056>,socket\_mon =>

#Ref<0.155928093.3973316611.146688>,state => open,stream\_count =>

1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>

1,owner => <0.32586.0>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>

gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],

{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],

{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],

{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 18:54:11.981 1 [error] <0.32586.0>@Undefined:Undefined:Undefined gen\_server <0.32586.0> terminated with reason: connection\_down

2022-06-27 18:54:11.982 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.32586.0>,connection\_down}

2022-06-27 18:54:11.982 1 [error] <0.32586.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.32586.0> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 18:54:16.808 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

2022-06-27 18:54:21.982 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "54.207.131.103":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 18:54:22.258 1 [info] <0.32589.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary

2022-06-27 18:54:22.259 1 [info] <0.32589.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"54.207.131.103">>,http\_connection => <0.32588.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler

2022-06-27 18:54:22.528 1 [error]  
<0.32588.0>@http2\_client:handle\_settings:822 gen\_server <0.32588.0>  
terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 18:54:22.528 1 [error]  
<0.32588.0>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.32588.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 18:54:22.530 1 [error]  
<0.32589.0>@Undefined:Undefined:Undefined gen\_server <0.32589.0>  
terminated with reason: connection\_down

2022-06-27 18:54:22.530 1 [error]  
<0.32589.0>@Undefined:Undefined:Undefined CRASH REPORT Process  
<0.32589.0> with 0 neighbours exited with reason: connection\_down in  
gen\_server:handle\_common\_reply/8 line 811

2022-06-27 18:54:22.530 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32589.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:54:22.531 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:54:22.531 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:54:22.532 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:54:22.533 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32588.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5057>,socket_mon =>
#Ref<0.155928093.3973316611.146718>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.32589.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl",{line,226}}}}}}
2022-06-27 18:54:22.534 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32589.0>,connection_down}
2022-06-27 18:54:26.952 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:54:32.534 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:54:32.813 1 [info] <0.32592.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:54:32.814 1 [info] <0.32592.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.32591.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:54:33.086 1 [error]
<0.32591.0>@http2_client:handle_settings:822 gen_server <0.32591.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:54:33.087 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32592.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl",{line,418}}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl",{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl",{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl",{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl",{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl",{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl",{line,226}]]}
2022-06-27 18:54:33.088 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:54:33.088 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:54:33.088 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:54:33.089 1 [error]
<0.32591.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32591.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:54:33.089 1 [error]
<0.32592.0>@Undefined:Undefined:Undefined gen_server <0.32592.0>
terminated with reason: connection_down
2022-06-27 18:54:33.089 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32591.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5058>,socket_mon =>
#Ref<0.155928093.3973316611.146762>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32592.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 18:54:33.089 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32592.0>,connection_down}
2022-06-27 18:54:33.089 1 [error]
<0.32592.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.32592.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:54:36.593 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:54:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:54:36.593 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:54:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:54:36.595 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4958,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:54:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:54:37.115 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:54:38.181 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
1128qostYLU9DLKtuq8Z8MnVvEEeNFo48E3tGVN8BwzNERfReQ3L" informed us
```



of our observed address "/ip4/80.77.186.186/tcp/9133"  
2022-06-27 18:54:43.091 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.230.8.198":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:54:43.367 1 [info] <0.32612.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 18:54:43.370 1 [info] <0.32612.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"18.230.8.198">>,http\_connection => <0.32611.0>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 18:54:43.635 1 [error]  
<0.32611.0>@http2\_client:handle\_settings:822 gen\_server <0.32611.0> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 18:54:43.636 1 [error]  
<0.32611.0>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.32611.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 18:54:43.636 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.32612.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},

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{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:54:43.636 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:54:43.636 1 [error] <0.32612.0>@Undefined:Undefined:Undefined
gen_server <0.32612.0> terminated with reason: connection_down
2022-06-27 18:54:43.637 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:54:43.637 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:54:43.637 1 [error] <0.32612.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32612.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:54:43.638 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32611.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"18.230.8.198">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5064>,socket_mon =>
#Ref<0.155928093.3973578754.29419>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32612.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
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{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 18:54:43.639 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32612.0>,connection_down}
2022-06-27 18:54:47.262 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:54:53.639 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:54:53.805 1 [info] <0.32619.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:54:53.806 1 [info] <0.32619.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.32618.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:54:53.967 1 [error]
<0.32618.0>@http2_client:handle_settings:822 gen_server <0.32618.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:54:53.968 1 [error]
<0.32618.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32618.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:54:53.969 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32619.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:54:53.969 1 [error] <0.32619.0>@Undefined:Undefined:Undefined
gen_server <0.32619.0> terminated with reason: connection_down
2022-06-27 18:54:53.969 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:54:53.969 1 [error] <0.32619.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32619.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:54:53.969 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:54:53.969 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:54:53.971 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32618.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5065>,socket_mon =>
#Ref<0.155928093.3973316611.146940>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.32619.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 18:54:53.971 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32619.0>,connection_down}
2022-06-27 18:54:57.419 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:55:03.972 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:55:06.592 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:55:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:55:06.592 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:55:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:55:06.593 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4962,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:55:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:55:07.553 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:55:17.698 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:55:27.836 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833  
2022-06-27 18:55:33.977 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}}],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}}],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}}}]  
2022-06-27 18:55:33.978 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 18:55:33.979 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.32633.0>,timeout}  
2022-06-27 18:55:33.979 1 [error] <0.32633.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.32633.0> with 0 neighbours exited with reason: timeout in gen\_server:init\_it/6 line 407  
2022-06-27 18:55:36.593 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:55:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 18:55:36.594 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:55:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 18:55:36.596 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4966,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:55:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 18:55:37.989 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 18:55:43.980 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.215.75.202":

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{gateway_validators_req_v1_pb,1}
2022-06-27 18:55:44.220 1 [info] <0.32654.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:55:44.222 1 [info] <0.32654.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.32653.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:55:44.453 1 [error]
<0.32653.0>@http2_client:handle_settings:822 gen_server <0.32653.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:55:44.455 1 [error]
<0.32653.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32653.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:55:44.456 1 [error]
<0.32654.0>@Undefined:Undefined:Undefined gen_server <0.32654.0>
terminated with reason: connection_down
2022-06-27 18:55:44.457 1 [error]
<0.32654.0>@Undefined:Undefined:Undefined CRASH REPORT Process
<0.32654.0> with 0 neighbours exited with reason: connection_down in
gen_server:handle_common_reply/8 line 811
2022-06-27 18:55:44.458 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32654.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

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[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:55:44.459 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:55:44.460 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:55:44.460 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:55:44.463 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32653.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.215.75.202">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5067>,socket_mon =>
#Ref<0.155928093.3973316611.147241>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32654.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]]}
```



2022-06-27 18:55:44.464 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.32654.0>,connection\_down}  
2022-06-27 18:55:48.145 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:55:53.493 1 [info] <0.1636.0>@libp2p\_peerbook:notify\_peers:  
{726,5} gossiping out 1 notify peers  
2022-06-27 18:55:54.463 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.237.155.172":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:55:54.799 1 [info] <0.32664.0>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 18:55:54.801 1 [info] <0.32664.0>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"13.237.155.172">>,http\_connection => <0.32663.0>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 18:55:55.136 1 [error]  
<0.32663.0>@http2\_client:handle\_settings:822 gen\_server <0.32663.0>  
terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 18:55:55.141 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.32664.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{},"gen\_server.erl"],{line,247}}],  
{grpc\_client\_stream\_custom,process\_response,2,  
[{},"grpc\_client\_stream\_custom.erl"],{line,418}}],{grpc\_client\_custom,unary,6,  
[{},"grpc\_client\_custom.erl"],{line,278}}],  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{},"miner\_poc\_grpc\_client\_statem.erl"],{line,721}}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{},"miner\_poc\_grpc\_client\_statem.erl"],{line,467}}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{},"miner\_poc\_grpc\_client\_statem.erl"],{line,221}}],

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{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:55:55.141 1 [error]
<0.32663.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32663.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:55:55.142 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:55:55.142 1 [error] <0.32664.0>@Undefined:Undefined:Undefined
gen_server <0.32664.0> terminated with reason: connection_down
2022-06-27 18:55:55.143 1 [error] <0.32664.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32664.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:55:55.143 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:55:55.143 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:55:55.147 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32663.0>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"13.237.155.172">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5068>,socket_mon =>
#Ref<0.155928093.3973578754.30962>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.32664.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 18:55:55.148 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32664.0>,connection_down}
2022-06-27 18:55:58.285 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:56:05.146 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:56:06.597 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:56:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:56:06.599 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:56:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:56:06.601 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4970,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:56:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:56:08.432 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:56:17.960 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112bGBvMViwYquKqcbF3CzJ1hjEayg3vfdFyoyLiAtzrEALzp1aS" informed us of our
observed address "/ip4/80.77.186.186/tcp/54879"
2022-06-27 18:56:18.569 1 [info]
```

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 18:56:28.709 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 18:56:35.149 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[{"miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,719}]},  
{"miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{"miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{"gen\_statem,loop\_state\_callback,11,[{"file,"gen\_statem.erl"},{line,1203}]},  
{"proc\_lib,init\_p\_do\_apply,3,[{"file,"proc\_lib.erl"},{line,226}]]]  
2022-06-27 18:56:35.149 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 18:56:35.150 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.32666.0>,timeout}  
2022-06-27 18:56:35.150 1 [error] <0.32666.0>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.32666.0> with 0 neighbours exited with reason: timeout in gen\_server:init\_it/6 line 407  
2022-06-27 18:56:36.603 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:56:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 18:56:36.604 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:56:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 18:56:36.607 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4974,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 18:56:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 18:56:38.862 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from

12291671073248440251 on 56833  
2022-06-27 18:56:45.152 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.72.215.7":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:56:45.232 1 [info] <0.32684.0>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 18:56:45.232 1 [info] <0.32684.0>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.72.215.7">>,http\_connection => <0.32683.0>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 18:56:45.305 1 [error]  
<0.32683.0>@http2\_client:handle\_settings:822 gen\_server <0.32683.0> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 18:56:45.307 1 [error]  
<0.32683.0>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.32683.0> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 18:56:45.308 1 [error]  
<0.32684.0>@Undefined:Undefined:Undefined gen\_server <0.32684.0> terminated with reason: connection\_down  
2022-06-27 18:56:45.308 1 [error]  
<0.32684.0>@Undefined:Undefined:Undefined CRASH REPORT Process <0.32684.0> with 0 neighbours exited with reason: connection\_down in  
gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:56:45.309 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.32684.0>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6,

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[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 18:56:45.309 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:56:45.310 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:56:45.310 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:56:45.311 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32683.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{52,
{<<":authority">>,<<"3.72.215.7">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5075>,socket_mon =>
#Ref<0.155928093.3974103041.45302>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32684.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[file,"http2_client.erl"],{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:56:45.312 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32684.0>,connection_down}
2022-06-27 18:56:49.008 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:56:55.313 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:56:59.165 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:57:06.598 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:57:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:57:06.598 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:57:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:57:06.600 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4978,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:57:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:57:09.315 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:57:19.458 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:57:21.668 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1641.0>
2022-06-27 18:57:25.319 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}]
2022-06-27 18:57:25.319 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:57:25.321 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32693.0>,timeout}
2022-06-27 18:57:25.321 1 [error] <0.32693.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32693.0> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 18:57:29.605 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:57:35.322 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:57:35.407 1 [info] <0.32731.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:57:35.409 1 [info] <0.32731.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.32730.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:57:35.483 1 [error]
<0.32730.0>@http2_client:handle_settings:822 gen_server <0.32730.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```



```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 18:57:35.485 1 [error]
<0.32730.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32730.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 18:57:35.485 1 [error] <0.32731.0>@Undefined:Undefined:Undefined
gen_server <0.32731.0> terminated with reason: connection_down
2022-06-27 18:57:35.485 1 [error] <0.32731.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32731.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:57:35.486 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32731.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:57:35.487 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:57:35.487 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:57:35.487 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:57:35.488 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32730.0>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5077>,socket_mon =>
#Ref<0.155928093.3974103041.46161>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.32731.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}}
2022-06-27 18:57:35.489 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32731.0>,connection_down}
2022-06-27 18:57:36.603 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:57:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:57:36.604 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:57:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:57:36.606 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4982,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:57:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:57:39.742 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:57:45.490 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:57:45.826 1 [info] <0.32735.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:57:45.827 1 [info] <0.32735.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.32734.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:57:46.152 1 [error]
<0.32734.0>@http2_client:handle_settings:822 gen_server <0.32734.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:57:46.155 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32735.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:57:46.155 1 [error]
<0.32734.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32734.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:57:46.156 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:57:46.156 1 [error] <0.32735.0>@Undefined:Undefined:Undefined
gen_server <0.32735.0> terminated with reason: connection_down
2022-06-27 18:57:46.156 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:57:46.156 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:57:46.156 1 [error] <0.32735.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32735.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:57:46.158 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32734.0>,{function_clause,
[{{http2_client,handle_settings,
[[[],<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5078>,socket_mon =>
#Ref<0.155928093.3973316611.147999>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32735.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 18:57:46.159 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32735.0>,connection_down}
2022-06-27 18:57:49.892 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:57:56.159 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:57:56.322 1 [info] <0.32738.0>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:57:56.324 1 [info] <0.32738.0>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.32737.0>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:57:56.476 1 [error]
<0.32737.0>@http2_client:handle_settings:822 gen_server <0.32737.0>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:57:56.476 1 [error]
<0.32737.0>@http2_client:handle_settings:822 CRASH REPORT Process
<0.32737.0> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:57:56.477 1 [error] <0.32738.0>@Undefined:Undefined:Undefined
gen_server <0.32738.0> terminated with reason: connection_down
2022-06-27 18:57:56.477 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.32738.0>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[[file,"gen_server.erl"],{line,247}]],
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]},{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]},
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]},
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]]
2022-06-27 18:57:56.477 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:57:56.478 1 [error] <0.32738.0>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.32738.0> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:57:56.478 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:57:56.478 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:57:56.480 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32737.0>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{55,
{<<":authority">>,<<"3.132.190.192">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5079>,socket_mon =>
#Ref<0.155928093.3973316611.148032>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.32738.0>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 18:57:56.481 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.32738.0>,connection_down}
2022-06-27 18:58:00.065 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:58:06.481 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:58:06.576 1 [info] <0.3.1>@grpc_client_stream_custom:init:{131,9}
init stream for RPC validators and type unary
2022-06-27 18:58:06.578 1 [info] <0.3.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.2.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:58:06.600 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:58:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:58:06.601 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:58:06 GMT">>,<<"txnb">> => 0}
2022-06-27 18:58:06.602 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4986,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:58:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:58:06.662 1 [error] <0.2.1>@http2_client:handle_settings:822
gen_server <0.2.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:58:06.664 1 [error] <0.2.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:58:06.664 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:58:06.664 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:58:06.665 1 [error] <0.3.1>@Undefined:Undefined:Undefined
gen_server <0.3.1> terminated with reason: connection_down
2022-06-27 18:58:06.665 1 [error] <0.3.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:58:06.666 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```



2022-06-27 18:58:06.666 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 18:58:06.667 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]}},host => "52.30.111.82",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5080>,socket\_mon => #Ref<0.155928093.3974103041.46927>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.3.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}

2022-06-27 18:58:06.667 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3.1>,connection\_down}

2022-06-27 18:58:10.199 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 18:58:16.668 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.211.55.217": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 18:58:16.999 1 [info] <0.6.1>@grpc\_client\_stream\_custom:init:{131,9} init stream for RPC validators and type unary

```
2022-06-27 18:58:17.001 1 [info] <0.6.1>@grpc_client_stream_custom:init:{133,9}
init stream success with state #{buffer => <<>>,compression => none,connection
=> #{client => http2_client,host => <<"13.211.55.217">>,http_connection =>
<0.5.1>,scheme => <<"http">>},encoder =>
gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:58:17.323 1 [error] <0.5.1>@http2_client:handle_settings:822
gen_server <0.5.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:58:17.323 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:58:17.324 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:58:17.325 1 [error] <0.5.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:58:17.325 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

2022-06-27 18:58:17.325 1 [error] <0.6.1>@Undefined:Undefined:Undefined  
gen\_server <0.6.1> terminated with reason: connection\_down  
2022-06-27 18:58:17.325 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:58:17.326 1 [error] <0.6.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.6.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:58:17.328 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,  
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "13.211.55.217",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5081>,socket\_mon =>  
#Ref<0.155928093.3973316611.148110>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.6.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}]  
2022-06-27 18:58:17.329 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6.1>,connection\_down}  
2022-06-27 18:58:20.342 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:58:22.526 1 [notice] <0.17.1>@libp2p\_stream\_relay:handle\_info:

```
{146,5} client init bridge Server to Client {libp2p_relay_bridge_rs_pb,"/p2p/
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv","/
ip4/148.74.241.102/tcp/44158"}
2022-06-27 18:58:22.822 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11W9kbKnqvfLpXAWN1SLtV8MYtLcFZXqVJn3Kx1eoAjipmXQH9S" informed us of
our observed address "/ip4/80.77.186.186/tcp/54071"
2022-06-27 18:58:23.400 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.28.1>, Ref:
#Ref<0.155928093.3973578754.32907>, Peer: "/p2p/
11W9kbKnqvfLpXAWN1SLtV8MYtLcFZXqVJn3Kx1eoAjipmXQH9S"
2022-06-27 18:58:27.328 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:58:27.555 1 [info] <0.34.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:58:27.556 1 [info] <0.34.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.33.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:58:27.777 1 [error] <0.33.1>@http2_client:handle_settings:822
gen_server <0.33.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:58:27.778 1 [error] <0.33.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.33.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:58:27.778 1 [error] <0.34.1>@Undefined:Undefined:Undefined
gen_server <0.34.1> terminated with reason: connection_down
2022-06-27 18:58:27.778 1 [error] <0.34.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.34.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 18:58:27.779 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.34.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:58:27.779 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 18:58:27.780 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 18:58:27.780 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 18:58:27.782 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.33.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.89.130.114">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5083>,socket_mon =>
#Ref<0.155928093.3973316611.148222>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.34.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 18:58:27.782 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.34.1>,connection_down}
2022-06-27 18:58:30.499 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:58:36.602 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:58:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 18:58:36.603 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:58:36 GMT">>,<<"txnb">> => 0}
2022-06-27 18:58:36.605 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=4990,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 18:58:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 18:58:37.782 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:58:38.118 1 [info] <0.41.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:58:38.120 1 [info] <0.41.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.40.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:58:38.449 1 [error] <0.40.1>@http2_client:handle_settings:822
gen_server <0.40.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:58:38.450 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.41.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:58:38.450 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:58:38.450 1 [error] <0.40.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.40.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:58:38.450 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:58:38.450 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:58:38.451 1 [error] <0.41.1>@Undefined:Undefined:Undefined
gen_server <0.41.1> terminated with reason: connection_down
```

```
2022-06-27 18:58:38.451 1 [error] <0.41.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.41.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:58:38.452 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.40.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5084>,socket_mon =>
#Ref<0.155928093.3974103041.47985>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.41.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:58:38.453 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.41.1>,connection_down}
2022-06-27 18:58:40.652 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:58:48.453 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:58:48.617 1 [info] <0.44.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```



```
2022-06-27 18:58:48.619 1 [info] <0.44.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.43.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:58:48.780 1 [error] <0.43.1>@http2_client:handle_settings:822
gen_server <0.43.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:58:48.781 1 [error] <0.43.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.43.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:58:48.783 1 [error] <0.44.1>@Undefined:Undefined:Undefined
gen_server <0.44.1> terminated with reason: connection_down
2022-06-27 18:58:48.784 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.44.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:58:48.784 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:58:48.785 1 [error] <0.44.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.44.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:58:48.785 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 18:58:48.785 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 18:58:48.789 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.43.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "3.131.232.233",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5085>,socket\_mon =>  
#Ref<0.155928093.3973578754.33204>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.44.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}  
2022-06-27 18:58:48.791 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.44.1>,connection\_down}  
2022-06-27 18:58:50.799 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:58:58.788 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:58:59.016 1 [info] <0.47.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:58:59.017 1 [info] <0.47.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2_client,host => <<"52.89.130.114">>,http_connection => <0.46.1>,scheme => <<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input => gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway_resp_v1_pb,output_stream => false,package => [],queue => {[[],[]]},response_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod: miner_poc_grpc_client_handler
2022-06-27 18:58:59.242 1 [error] <0.46.1>@http2_client:handle_settings:822 gen_server <0.46.1> terminated with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:58:59.243 1 [error] <0.46.1>@http2_client:handle_settings:822 CRASH REPORT Process <0.46.1> with 0 neighbours crashed with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:58:59.244 1 [error] <0.47.1>@Undefined:Undefined:Undefined gen_server <0.47.1> terminated with reason: connection_down
2022-06-27 18:58:59.244 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.47.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

2022-06-27 18:58:59.244 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}  
2022-06-27 18:58:59.245 1 [error] <0.47.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.47.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 18:58:59.245 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 18:58:59.245 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 18:58:59.247 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.46.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"52.89.130.114">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "52.89.130.114",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5086>,socket\_mon => #Ref<0.155928093.3974103041.48410>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.47.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 18:58:59.247 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst

in setup state: Type: info, Msg: {'EXIT',<0.47.1>,connection\_down}  
2022-06-27 18:59:00.942 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 18:59:06.608 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:59:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 18:59:06.609 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:59:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 18:59:06.612 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=4994,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 18:59:06 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 18:59:09.248 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.72.215.7":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 18:59:09.329 1 [info] <0.58.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 18:59:09.331 1 [info] <0.58.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"3.72.215.7">>,http\_connection => <0.55.1>,scheme => <<"http">>},encoder  
=> gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 18:59:09.434 1 [error] <0.55.1>@http2\_client:handle\_settings:822  
gen\_server <0.55.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 18:59:09.435 1 [error] <0.55.1>@http2\_client:handle\_settings:822

```
CRASH REPORT Process <0.55.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:59:09.436 1 [error] <0.58.1>@Undefined:Undefined:Undefined
gen_server <0.58.1> terminated with reason: connection_down
2022-06-27 18:59:09.437 1 [error] <0.58.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.58.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:59:09.439 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.58.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 18:59:09.439 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:59:09.439 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:59:09.440 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:59:09.442 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.55.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5087>,socket_mon =>
#Ref<0.155928093.3973578754.33392>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.58.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 18:59:09.442 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.58.1>,connection_down}
2022-06-27 18:59:11.088 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:59:19.441 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:59:19.678 1 [info] <0.83.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:59:19.679 1 [info] <0.83.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.82.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:59:19.909 1 [error] <0.82.1>@http2_client:handle_settings:822
gen_server <0.82.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:59:19.909 1 [error] <0.82.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.82.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:59:19.912 1 [error] <0.83.1>@Undefined:Undefined:Undefined
gen_server <0.83.1> terminated with reason: connection_down
2022-06-27 18:59:19.912 1 [error] <0.83.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.83.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:59:19.912 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.83.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 18:59:19.912 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:59:19.913 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:59:19.913 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:59:19.914 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.82.1>,{function_clause,
[{http2_client,handle_settings,
```



```
[[],0,<<0,1,0,0,16,0,0,3,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5088>,socket_mon =>
#Ref<0.155928093.3973578754.33578>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.83.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:59:19.915 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.83.1>,connection_down}
2022-06-27 18:59:21.239 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:59:29.916 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:59:30.190 1 [info] <0.93.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:59:30.192 1 [info] <0.93.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.92.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:59:30.458 1 [error] <0.92.1>@http2_client:handle_settings:822
gen_server <0.92.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:59:30.460 1 [error] <0.92.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.92.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:59:30.461 1 [error] <0.93.1>@Undefined:Undefined:Undefined
gen_server <0.93.1> terminated with reason: connection_down
2022-06-27 18:59:30.461 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.93.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:59:30.461 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:59:30.461 1 [error] <0.93.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.93.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:59:30.462 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:59:30.462 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 18:59:30.463 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.92.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5089>,socket_mon =>
#Ref<0.155928093.3973316611.148428>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.93.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 18:59:30.464 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.93.1>,connection_down}
2022-06-27 18:59:31.375 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:59:36.403 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 18:59:36.409 1 [info] <0.1662.0>@blockchain_worker:start_sync:
{888,13} new block sync starting with Pid: <0.99.1>, Ref:
#Ref<0.155928093.3974103041.49715>, Peer: "/p2p/
11PzZARemzHhzPgLteq9K67TU1rmb4dhiiubuEFmGzZMpXbNr5K"
2022-06-27 18:59:36.606 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
```

```
#{"stat": 0, "ackr": 0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0, "time": "2022-06-27 18:59:36 GMT", "txnb": 0} from
12291671073248440251 on 35152
2022-06-27 18:59:36.607 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status {"ackr": 0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0, "time": "2022-06-27 18:59:36 GMT", "txnb": 0}
2022-06-27 18:59:36.611 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=4998,dropped=0,status={"ackr": 0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0, "time": "2022-06-27 18:59:36 GMT", "txnb": 0},rtt_samples=[],rtt=5000000}
2022-06-27 18:59:37.364 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11PzZARemzHhzPgLteq9K67TU1rmb4dhiiubuEFmGzZMpXbNr5K" informed us of
our observed address "/ip4/80.77.186.186/tcp/10749"
2022-06-27 18:59:40.465 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:59:40.700 1 [info] <0.116.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:59:40.701 1 [info] <0.116.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.115.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:59:41.237 1 [error] <0.115.1>@http2_client:handle_settings:822
gen_server <0.115.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:59:41.238 1 [error] <0.115.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.115.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 18:59:41.238 1 [error] <0.116.1>@Undefined:Undefined:Undefined
gen_server <0.116.1> terminated with reason: connection_down
2022-06-27 18:59:41.239 1 [error] <0.116.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.116.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:59:41.239 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.116.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]
2022-06-27 18:59:41.239 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:59:41.240 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:59:41.240 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:59:41.242 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.115.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5095>,socket_mon =>
#Ref<0.155928093.3973316611.148458>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.116.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:59:41.242 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.116.1>,connection_down}
2022-06-27 18:59:41.519 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:59:51.243 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 18:59:51.675 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 18:59:52.501 1 [info] <0.119.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 18:59:52.504 1 [info] <0.119.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.118.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 18:59:52.732 1 [error] <0.118.1>@http2_client:handle_settings:822
```

```
gen_server <0.118.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:59:52.733 1 [error] <0.118.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.118.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 18:59:52.733 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.119.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 18:59:52.734 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 18:59:52.734 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 18:59:52.734 1 [error] <0.119.1>@Undefined:Undefined:Undefined
gen_server <0.119.1> terminated with reason: connection_down
2022-06-27 18:59:52.734 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 18:59:52.735 1 [error] <0.119.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.119.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 18:59:52.736 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.118.1>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5096>,socket_mon =>
#Ref<0.155928093.3973578754.33933>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.119.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 18:59:52.736 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.119.1>,connection_down}
2022-06-27 19:00:01.815 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:00:02.737 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:00:02.897 1 [info] <0.122.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:00:02.899 1 [info] <0.122.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.121.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```



```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:00:03.052 1 [error] <0.121.1>@http2_client:handle_settings:822
gen_server <0.121.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:00:03.053 1 [error] <0.121.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.121.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:00:03.054 1 [error] <0.122.1>@Undefined:Undefined:Undefined
gen_server <0.122.1> terminated with reason: connection_down
2022-06-27 19:00:03.054 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.122.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:00:03.054 1 [error] <0.122.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.122.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:00:03.054 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:00:03.055 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:00:03.055 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:00:03.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.121.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5097>,socket_mon =>
#Ref<0.155928093.3973578754.33983>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.122.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:00:03.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.122.1>,connection_down}
2022-06-27 19:00:06.608 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:00:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:00:06.608 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:00:06 GMT">>,<<"txnb">> => 0}
```

```
2022-06-27 19:00:06.609 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5002,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:00:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:00:11.962 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:00:13.058 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:00:13.215 1 [info] <0.132.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:00:13.218 1 [info] <0.132.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.131.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:00:13.365 1 [error] <0.131.1>@http2_client:handle_settings:822
gen_server <0.131.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:00:13.366 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.132.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]]},
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:00:13.366 1 [error] <0.131.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.131.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:00:13.367 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:00:13.367 1 [error] <0.132.1>@Undefined:Undefined:Undefined
gen_server <0.132.1> terminated with reason: connection_down
2022-06-27 19:00:13.367 1 [error] <0.132.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.132.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:00:13.367 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:00:13.368 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:00:13.369 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.131.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5098>,socket_mon =>
#Ref<0.155928093.3973578754.34068>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.132.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl",{line,226}}}}}}
2022-06-27 19:00:13.369 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.132.1>,connection_down}
2022-06-27 19:00:17.094 1 [warning]
<0.1644.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/
ip4/54.207.252.240/tcp/443": {exit,{normal,{gen_server,call,[<0.31119.0>,open]}}}
2022-06-27 19:00:22.104 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:00:23.370 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:00:23.532 1 [info] <0.169.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:00:23.534 1 [info] <0.169.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.168.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:00:23.686 1 [error] <0.168.1>@http2_client:handle_settings:822
gen_server <0.168.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:00:23.688 1 [error] <0.168.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.168.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 19:00:23.688 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.169.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:00:23.688 1 [error] <0.169.1>@Undefined:Undefined:Undefined
gen_server <0.169.1> terminated with reason: connection_down
2022-06-27 19:00:23.688 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:00:23.689 1 [error] <0.169.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.169.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:00:23.689 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:00:23.689 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:00:23.691 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.168.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
```

```
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5104>,socket_mon =>
#Ref<0.155928093.3973578754.34274>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.169.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl",{line,226}}}]}}
2022-06-27 19:00:23.692 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.169.1>,connection_down}
2022-06-27 19:00:32.248 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:00:33.692 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:00:33.928 1 [info] <0.172.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:00:33.929 1 [info] <0.172.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.171.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:00:34.164 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.172.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 19:00:34.164 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:00:34.166 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:00:34.166 1 [error] <0.171.1>@http2_client:handle_settings:822
gen_server <0.171.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:00:34.166 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:00:34.168 1 [error] <0.171.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.171.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:00:34.169 1 [error] <0.172.1>@Undefined:Undefined:Undefined
gen_server <0.172.1> terminated with reason: connection_down
2022-06-27 19:00:34.170 1 [error] <0.172.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.172.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:00:34.170 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.171.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```



```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5105>,socket_mon =>
#Ref<0.155928093.3974103041.52031>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.172.1>,server_window => 65528,state => half_closed_local>window_mgmt_data
=> undefined>window_mgmt_fun => #Fun<http2_client.0.117949056>}},timeout
=> 3000,transport => gen_tcp>window_mgmt_data =>
undefined>window_mgmt_fun => #Fun<http2_client.0.117949056>}],
[{file,"http2_client.erl"},{line,822}],{http2_client,handle_packet,2,
[{file,"http2_client.erl"},{line,648}],{gen_server,try_dispatch,4,
[{file,"gen_server.erl"},{line,695}],{gen_server,handle_msg,6,
[{file,"gen_server.erl"},{line,771}],{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},
{line,226}]}}]}
2022-06-27 19:00:34.170 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.172.1>,connection_down}
2022-06-27 19:00:36.606 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:00:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:00:36.607 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:00:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:00:36.608 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5006,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:00:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:00:37.709 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
```

2022-06-27 19:00:37.932 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/11vkfWEZQcFZ7XwMW5Z9P83vbeCVevYbQfDVkjJSWyQgnsafvWF" informed us of our observed address "/ip4/80.77.186.186/tcp/38076"  
2022-06-27 19:00:39.883 1 [info] <0.1662.0>@blockchain\_worker:target\_sync:{836,5} targeted block sync starting with Pid: <0.196.1>, Ref: #Ref<0.155928093.3973578754.34730>, Peer: "/p2p/11W9kbKnqvfLpXAWN1SLtV8MYtLcFZXqVJn3Kx1eoAjipmXQH9S"  
2022-06-27 19:00:42.395 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:00:43.422 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/112YEKpfD3GrxGmfpNbxhwdpMC1bEDys4HhfNY199q9ct4XLommd" informed us of our observed address "/ip4/80.77.186.186/tcp/25874"  
2022-06-27 19:00:44.169 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.215.75.202":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:00:44.407 1 [info] <0.217.1>@grpc\_client\_stream\_custom:init:{131,9} init stream for RPC validators and type unary  
2022-06-27 19:00:44.408 1 [info] <0.217.1>@grpc\_client\_stream\_custom:init:{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"13.215.75.202">>,http\_connection => <0.216.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 19:00:44.638 1 [error] <0.216.1>@http2\_client:handle\_settings:822 gen\_server <0.216.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 19:00:44.639 1 [error] <0.216.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.216.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 19:00:44.640 1 [error] <0.217.1>@Undefined:Undefined:Undefined

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gen_server <0.217.1> terminated with reason: connection_down
2022-06-27 19:00:44.641 1 [error] <0.217.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.217.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:00:44.641 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.217.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:00:44.641 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:00:44.642 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:00:44.642 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:00:44.643 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.216.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5118>,socket_mon =>
#Ref<0.155928093.3973578754.34963>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.217.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:00:44.644 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.217.1>,connection_down}
2022-06-27 19:00:52.539 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:00:52.683 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 6,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAHltNAhACn9AG95w6uSISipL6VSdpXZGttEmc/
BpDvFPoweBQXP5756xPtWHeh7Tg==">>,<<"datr">> =>
<<"SF12BW125">>,<<"foff">> => -542,<<"freq">> => 867.7,<<"jver">> =>
1,<<"lsnr">> => -22.2,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 0,<<"rssi">> => -112,<<"rssid">> => -133,<<"size">> => 52,<<"stat">> =>
1,<<"tmst">> => 3608681457}}} from 12291671073248440251 on 35152
2022-06-27 19:00:54.645 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:00:54.973 1 [info] <0.221.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:00:54.975 1 [info] <0.221.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.220.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 19:00:55.298 1 [error] <0.220.1>@http2_client:handle_settings:822
gen_server <0.220.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:00:55.299 1 [error] <0.220.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.220.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:00:55.300 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.221.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:00:55.300 1 [error] <0.221.1>@Undefined:Undefined:Undefined
gen_server <0.221.1> terminated with reason: connection_down
2022-06-27 19:00:55.300 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:00:55.300 1 [error] <0.221.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.221.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:00:55.300 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:00:55.300 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:00:55.303 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.220.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5119>,socket_mon =>
#Ref<0.155928093.3973316611.149212>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.221.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:00:55.303 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.221.1>,connection_down}
2022-06-27 19:01:02.692 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:01:05.303 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:01:05.386 1 [info] <0.224.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:01:05.386 1 [info] <0.224.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.223.1>,scheme => <<"http">>},encoder
```

```
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:01:05.463 1 [error] <0.223.1>@http2_client:handle_settings:822
gen_server <0.223.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:01:05.463 1 [error] <0.223.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.223.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:01:05.464 1 [error] <0.224.1>@Undefined:Undefined:Undefined
gen_server <0.224.1> terminated with reason: connection_down
2022-06-27 19:01:05.465 1 [error] <0.224.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.224.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:01:05.466 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.224.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:01:05.466 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:01:05.466 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 19:01:05.466 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:01:05.468 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.223.1>,{function\_clause,

[{http2\_client,handle\_settings,

[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

{state,0,4096,4096,[]},encode\_state => {state,282,4096,4096,[{42,

{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,

{<<"content-type">>,<<"application/grpc+proto">>}},{52,

{<<":authority">>,<<"3.72.215.7">>}},{63,<<":path">>,<<"/helium.gateway/

validators">>}}},host => "3.72.215.7",last\_stream => 1,owner =>

<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size

=> 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},server\_window => 65528,socket => #Port<0.5120>,socket\_mon =>

#Ref<0.155928093.3973316611.149233>,state => open,stream\_count =>

1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>

1,owner => <0.224.1>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>

gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},

{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},

{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},

{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}

2022-06-27 19:01:05.469 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.224.1>,connection\_down}

2022-06-27 19:01:06.614 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA

#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>

1,<<"rxnb">> => 2,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>

<<"2022-06-27 19:01:06 GMT">>,<<"txnb">> => 0}} from

12291671073248440251 on 35152

2022-06-27 19:01:06.615 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:

{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>



```
1,<<"rxnb">> => 2,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:01:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:01:06.617 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5010,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 2,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:01:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:01:12.825 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:01:15.468 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:01:15.632 1 [info] <0.230.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:01:15.634 1 [info] <0.230.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.228.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:01:15.787 1 [error] <0.228.1>@http2_client:handle_settings:822
gen_server <0.228.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:01:15.789 1 [error] <0.228.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.228.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:01:15.790 1 [error] <0.230.1>@Undefined:Undefined:Undefined
gen_server <0.230.1> terminated with reason: connection_down
2022-06-27 19:01:15.791 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.230.1>,{rcv,10000},infinity]}}}, Stack:[{gen_server,call,3,
```

```
[[file,"gen_server.erl"],{line,247}]],
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]],{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]]
2022-06-27 19:01:15.791 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:01:15.791 1 [error] <0.230.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.230.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:01:15.792 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:01:15.792 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:01:15.797 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.228.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"3.137.92.200">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5121>,socket_mon =>
#Ref<0.155928093.3973316611.149274>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.230.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}]
2022-06-27 19:01:15.798 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.230.1>,connection_down}
2022-06-27 19:01:20.295 1 [warning]
<0.1645.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/
ip4/54.75.67.249/tcp/2154": {exit,{normal,{gen_server,call,[<0.31816.0>,open]}}}
2022-06-27 19:01:22.968 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:01:25.795 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:01:26.063 1 [info] <0.254.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:01:26.064 1 [info] <0.254.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.253.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:01:26.329 1 [error] <0.253.1>@http2_client:handle_settings:822
gen_server <0.253.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:01:26.330 1 [error] <0.253.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.253.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:01:26.331 1 [error] <0.254.1>@Undefined:Undefined:Undefined
gen_server <0.254.1> terminated with reason: connection_down
2022-06-27 19:01:26.332 1 [error] <0.254.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.254.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:01:26.332 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.254.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:01:26.333 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:01:26.334 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:01:26.334 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:01:26.338 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.253.1>,{function_clause,
[{http2_client,handle_settings,
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5122>,socket_mon =>
#Ref<0.155928093.3973578754.35696>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.254.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:01:26.339 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.254.1>,connection_down}
2022-06-27 19:01:33.122 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:01:36.337 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:01:36.614 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:01:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:01:36.615 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:01:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:01:36.617 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5014,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:01:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
```

```
2022-06-27 19:01:36.618 1 [info] <0.257.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:01:36.620 1 [info] <0.257.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.256.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:01:36.880 1 [error] <0.256.1>@http2_client:handle_settings:822
gen_server <0.256.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:01:36.881 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.257.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:01:36.881 1 [error] <0.256.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.256.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:01:36.881 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:01:36.881 1 [error] <0.257.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.257.1> terminated with reason: connection_down
2022-06-27 19:01:36.882 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:01:36.882 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:01:36.882 1 [error] <0.257.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.257.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:01:36.883 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.256.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5123>,socket_mon =>
#Ref<0.155928093.3973578754.35841>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.257.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:01:36.884 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.257.1>,connection_down}
2022-06-27 19:01:41.970 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
```

112v91erdxS2Y7dW6D7gbYUMru389fHuu3YMWRXQbNNPGMRKz3mW" informed us of our observed address "/ip4/80.77.186.186/tcp/10927"  
2022-06-27 19:01:43.275 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:01:46.885 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.125.32.225":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:01:47.155 1 [info] <0.293.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 19:01:47.157 1 [info] <0.293.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"13.125.32.225">>,http\_connection => <0.292.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 19:01:47.424 1 [error] <0.292.1>@http2\_client:handle\_settings:822 gen\_server <0.292.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 19:01:47.426 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.293.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]]  
2022-06-27 19:01:47.426 1 [error] <0.292.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.292.1> with 0 neighbours crashed with reason: no



```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:01:47.427 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:01:47.427 1 [error] <0.293.1>@Undefined:Undefined:Undefined
gen_server <0.293.1> terminated with reason: connection_down
2022-06-27 19:01:47.428 1 [error] <0.293.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.293.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:01:47.428 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:01:47.429 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:01:47.432 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.292.1>,{function_clause,
[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5131>,socket_mon =>
#Ref<0.155928093.3973578754.36466>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.293.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:01:47.433 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.293.1>,connection_down}
2022-06-27 19:01:53.408 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:01:54.746 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 19:01:57.432 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:01:57.706 1 [info] <0.300.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:01:57.707 1 [info] <0.300.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.299.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:01:57.979 1 [error] <0.299.1>@http2_client:handle_settings:822
gen_server <0.299.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:01:57.981 1 [error] <0.299.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.299.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:01:57.985 1 [error] <0.300.1>@Undefined:Undefined:Undefined
gen_server <0.300.1> terminated with reason: connection_down
2022-06-27 19:01:57.985 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.300.1>,{rcv,10000},infinity]]}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:01:57.986 1 [error] <0.300.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.300.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:01:57.986 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:01:57.987 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:01:57.987 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:01:57.991 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.299.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5132>,socket_mon =>
```

```
#Ref<0.155928093.3973578754.36651>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.300.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 19:01:57.992 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.300.1>,connection_down}
2022-06-27 19:02:03.552 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:02:06.607 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:02:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:02:06.607 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:02:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:02:06.609 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5018,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:02:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:02:06.922 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.302.1>, Ref:
#Ref<0.155928093.3973578754.36789>, Peer: "/p2p/
11W9kbKnqvfLpXAWN1SLtV8MYtLcFZXqVJn3Kx1eoAjipmXQH9S"
2022-06-27 19:02:07.990 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:02:08.080 1 [info] <0.307.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 19:02:08.081 1 [info] <0.307.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.306.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:02:08.169 1 [error] <0.306.1>@http2_client:handle_settings:822
gen_server <0.306.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:02:08.170 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.307.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:02:08.171 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:02:08.171 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:02:08.172 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:02:08.171 1 [error] <0.306.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.306.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:02:08.174 1 [error] <0.307.1>@Undefined:Undefined:Undefined
gen_server <0.307.1> terminated with reason: connection_down
2022-06-27 19:02:08.175 1 [error] <0.307.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.307.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:02:08.175 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.306.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5133>,socket_mon =>
#Ref<0.155928093.3973578754.36859>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.307.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:02:08.176 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.307.1>,connection_down}
2022-06-27 19:02:13.696 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:02:18.175 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:02:18.407 1 [info] <0.310.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:02:18.408 1 [info] <0.310.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2_client,host => <<"13.215.75.202">>,http_connection => <0.309.1>,scheme => <<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input => gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway_resp_v1_pb,output_stream => false,package => [],queue => {[[],[]]},response_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod: miner_poc_grpc_client_handler
2022-06-27 19:02:18.634 1 [error] <0.309.1>@http2_client:handle_settings:822 gen_server <0.309.1> terminated with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:02:18.635 1 [error] <0.309.1>@http2_client:handle_settings:822 CRASH REPORT Process <0.309.1> with 0 neighbours crashed with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:02:18.636 1 [error] <0.310.1>@Undefined:Undefined:Undefined gen_server <0.310.1> terminated with reason: connection_down
2022-06-27 19:02:18.636 1 [error] <0.310.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.310.1> with 0 neighbours exited with reason: connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:02:18.636 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.310.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:02:18.637 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:02:18.637 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:02:18.637 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:02:18.639 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.309.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5134>,socket_mon =>
#Ref<0.155928093.3973578754.37035>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.310.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}}
2022-06-27 19:02:18.639 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```



```
in setup state: Type: info, Msg: {'EXIT',<0.310.1>,connection_down}
2022-06-27 19:02:21.670 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1638.0>
2022-06-27 19:02:23.846 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:02:28.640 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:02:28.723 1 [info] <0.335.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:02:28.724 1 [info] <0.335.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.334.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:02:28.799 1 [error] <0.334.1>@http2_client:handle_settings:822
gen_server <0.334.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:02:28.800 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.335.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

2022-06-27 19:02:28.800 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 19:02:28.800 1 [error] <0.334.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.334.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:02:28.801 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:02:28.801 1 [error] <0.335.1>@Undefined:Undefined:Undefined gen\_server <0.335.1> terminated with reason: connection\_down

2022-06-27 19:02:28.801 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:02:28.801 1 [error] <0.335.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.335.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:02:28.802 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.334.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096, [{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66, {<<"content-type">>,<<"application/grpc+proto">>}}],{54, {<<":authority">>,<<"3.122.38.248">>}}],{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.122.38.248",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5135>,socket\_mon => #Ref<0.155928093.3974103041.54236>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.335.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:02:28.803 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.335.1>,connection_down}
2022-06-27 19:02:34.002 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:02:36.615 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:02:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:02:36.616 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:02:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:02:36.619 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5022,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:02:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:02:38.804 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:02:39.086 1 [info] <0.338.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:02:39.087 1 [info] <0.338.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.337.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 19:02:39.361 1 [error] <0.337.1>@http2_client:handle_settings:822
gen_server <0.337.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:02:39.362 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.338.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:02:39.362 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:02:39.363 1 [error] <0.337.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.337.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:02:39.363 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:02:39.363 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:02:39.364 1 [error] <0.338.1>@Undefined:Undefined:Undefined
gen_server <0.338.1> terminated with reason: connection_down
2022-06-27 19:02:39.364 1 [error] <0.338.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.338.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:02:39.367 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.337.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5136>,socket_mon =>
#Ref<0.155928093.3974103041.54408>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.338.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 19:02:39.368 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.338.1>,connection_down}
2022-06-27 19:02:44.155 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:02:49.366 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:02:49.643 1 [info] <0.353.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:02:49.645 1 [info] <0.353.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.352.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:02:49.914 1 [error] <0.352.1>@http2_client:handle_settings:822
gen_server <0.352.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:02:49.915 1 [error] <0.352.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.352.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:02:49.916 1 [error] <0.353.1>@Undefined:Undefined:Undefined
gen_server <0.353.1> terminated with reason: connection_down
2022-06-27 19:02:49.916 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.353.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:02:49.916 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:02:49.916 1 [error] <0.353.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.353.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:02:49.917 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 19:02:49.917 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:02:49.918 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.352.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}]}],host => "13.125.32.225",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5137>,socket\_mon => #Ref<0.155928093.3973578754.37538>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.353.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}

2022-06-27 19:02:49.919 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.353.1>,connection\_down}

2022-06-27 19:02:54.309 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 19:02:59.919 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.72.143.228": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 19:03:00.006 1 [info] <0.360.1>@grpc\_client\_stream\_custom:init:

```
{131,9} init stream for RPC validators and type unary
2022-06-27 19:03:00.008 1 [info] <0.360.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.359.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:03:00.084 1 [error] <0.359.1>@http2_client:handle_settings:822
gen_server <0.359.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:03:00.085 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.360.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:03:00.086 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:03:00.086 1 [error] <0.359.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.359.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:03:00.087 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```



client error response

2022-06-27 19:03:00.087 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:03:00.089 1 [error] <0.360.1>@Undefined:Undefined:Undefined gen\_server <0.360.1> terminated with reason: connection\_down

2022-06-27 19:03:00.090 1 [error] <0.360.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.360.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:03:00.090 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.359.1>,{function\_clause, [{http2\_client,handle\_settings,

[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,

{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,

{<<"content-type">>,<<"application/grpc+proto">>}},{54,

{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/

validators">>}}}],host => "3.72.143.228",last\_stream => 1,owner =>

<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size

=> 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},server\_window => 65528,socket => #Port<0.5138>,socket\_mon =>

#Ref<0.155928093.3973578754.37630>,state => open,stream\_count =>

1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>

1,owner => <0.360.1>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>

gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],

{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],}

{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],}

{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],}

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 19:03:00.091 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.360.1>,connection\_down}

2022-06-27 19:03:04.452 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833



```
CRASH REPORT Process <0.379.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:03:10.272 1 [error] <0.380.1>@Undefined:Undefined:Undefined
gen_server <0.380.1> terminated with reason: connection_down
2022-06-27 19:03:10.272 1 [error] <0.380.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.380.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:03:10.273 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.380.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:03:10.273 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:03:10.276 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:03:10.276 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:03:10.280 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.379.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {54,
{<<":authority">>,<<"52.30.111.82">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5144>,socket_mon =>
#Ref<0.155928093.3973578754.37802>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.380.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 19:03:10.281 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.380.1>,connection_down}
2022-06-27 19:03:14.605 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:03:19.010 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 19:03:20.278 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:03:20.508 1 [info] <0.388.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:03:20.509 1 [info] <0.388.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.387.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

2022-06-27 19:03:20.732 1 [error] <0.387.1>@http2\_client:handle\_settings:822  
gen\_server <0.387.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:03:20.734 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.388.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{"grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]]

2022-06-27 19:03:20.734 1 [error] <0.387.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.387.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:03:20.734 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 19:03:20.735 1 [error] <0.388.1>@Undefined:Undefined:Undefined  
gen\_server <0.388.1> terminated with reason: connection\_down

2022-06-27 19:03:20.735 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 19:03:20.735 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 19:03:20.735 1 [error] <0.388.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.388.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:03:20.737 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst

```
in setup state: Type: info, Msg: {'EXIT',<0.387.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5145>,socket_mon =>
#Ref<0.155928093.3973578754.37877>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.388.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:03:20.737 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.388.1>,connection_down}
2022-06-27 19:03:21.644 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.391.1>, Ref:
#Ref<0.155928093.3973316611.150071>, Peer: "/p2p/
11W9kbKnqvfLpXAWN1SLtV8MYtLcFZXqVJn3Kx1eoAjipmXQH9S"
2022-06-27 19:03:24.745 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:03:30.738 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:03:31.018 1 [info] <0.401.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:03:31.019 1 [info] <0.401.1>@grpc_client_stream_custom:init:
```

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.400.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:03:31.525 1 [error] <0.400.1>@http2_client:handle_settings:822
gen_server <0.400.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:03:31.526 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.401.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:03:31.526 1 [error] <0.400.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.400.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:03:31.527 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:03:31.527 1 [error] <0.401.1>@Undefined:Undefined:Undefined
gen_server <0.401.1> terminated with reason: connection_down
2022-06-27 19:03:31.527 1 [error] <0.401.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.401.1> with 0 neighbours exited with reason:
```

connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:03:31.527 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 19:03:31.527 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 19:03:31.528 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.400.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}},host => "13.209.94.225",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
>=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5146>,socket\_mon =>  
#Ref<0.155928093.3973578754.38118>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.401.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]}},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}

2022-06-27 19:03:31.529 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.401.1>,connection\_down}  
2022-06-27 19:03:34.882 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:03:36.613 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA



#{"stat": => #{"ackr": => 0.0, "dwnb": => 0, "rxfw": => 0, "rxnb": => 0, "rxok": => 0, "temp": => 0.0, "time": => "2022-06-27 19:03:36 GMT", "txnb": => 0}} from 12291671073248440251 on 35152  
2022-06-27 19:03:36.613 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{"ackr": => 0.0, "dwnb": => 0, "rxfw": => 0, "rxnb": => 0, "rxok": => 0, "temp": => 0.0, "time": => "2022-06-27 19:03:36 GMT", "txnb": => 0}  
2022-06-27 19:03:36.615 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5030,dropped=0,status=#{"ackr": => 0.0, "dwnb": => 0, "rxfw": => 0, "rxnb": => 0, "rxok": => 0, "temp": => 0.0, "time": => "2022-06-27 19:03:36 GMT", "txnb": => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 19:03:40.402 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{"rxpk": => [{"chan": => 5, "codr": => "4/5", "data": => "QDDaAAHEPBWAIM2AG+QoM+mhkkuihcFu7rKqqcWKfw/Ft/vetza4A08HMK5x26JPdOSVA=="}, {"datr": => "SF12BW125"}, {"foff": => -317, "freq": => 867.5, "jver": => 1, "lsnr": => -16.5, "mid": => 0, "modu": => "LORA", "rfch": => 0, "rssi": => -111, "rssi\_s": => -127, "size": => 52, "stat": => 1, "tmst": => 3776394603}]} from 12291671073248440251 on 35152  
2022-06-27 19:03:41.530 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.38.70.101":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:03:45.035 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:03:55.178 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:04:05.322 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:04:06.621 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{"stat": => #{"ackr": => 0.0, "dwnb": => 0, "rxfw": => 1, "rxnb": => 1, "rxok": => 1, "temp": => 0.0, "time": => "2022-06-27 19:04:06 GMT", "txnb": => 0}} from 12291671073248440251 on 35152  
2022-06-27 19:04:06.622 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:

```
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:04:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:04:06.623 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5034,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:04:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:04:07.892 1 [notice]
<0.463.1>@libp2p_multistream_server:handle_info:{108,13} Failed to handshake
client "/ip4/192.168.5.233/tcp/49844": closed
2022-06-27 19:04:11.534 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:04:11.534 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:04:11.536 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.431.1>,timeout}
2022-06-27 19:04:11.536 1 [error] <0.431.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.431.1> with 0 neighbours exited with reason: timeout
in gen_server:init_it/6 line 407
2022-06-27 19:04:15.462 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:04:21.537 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:04:21.697 1 [info] <0.470.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:04:21.698 1 [info] <0.470.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.469.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:04:21.853 1 [error] <0.469.1>@http2_client:handle_settings:822
gen_server <0.469.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:04:21.854 1 [error] <0.469.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.469.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:04:21.854 1 [error] <0.470.1>@Undefined:Undefined:Undefined
gen_server <0.470.1> terminated with reason: connection_down
2022-06-27 19:04:21.855 1 [error] <0.470.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.470.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:04:21.855 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.470.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:04:21.855 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 19:04:21.856 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:04:21.856 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:04:21.857 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.469.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"3.132.190.192">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.132.190.192",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5159>,socket\_mon => #Ref<0.155928093.3973578754.38666>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.470.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 19:04:21.858 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.470.1>,connection\_down}

2022-06-27 19:04:25.620 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 19:04:27.226 1 [notice] <0.482.1>@libp2p\_stream\_relay:handle\_info: {146,5} client init bridge Server to Client {libp2p\_relay\_bridge\_rs\_pb,"/p2p/11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv",/}

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ip4/84.126.228.133/tcp/44158"}
2022-06-27 19:04:27.362 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112LjeGPWU5LRd2XByuioH9i4CuY2JSViLYPPBmaUs3Y2y5u4hu7" informed us of
our observed address "/ip4/80.77.186.186/tcp/7597"
2022-06-27 19:04:27.579 1 [info] <0.487.1>@libp2p_stream_proxy:init:{59,5} init
proxy server with {{connection,libp2p_yamux_stream,<0.486.1>},
[[],<0.1631.0>,blockchain_swarm]}
2022-06-27 19:04:27.683 1 [info]
<0.487.1>@libp2p_stream_proxy:handle_server_data:{131,5} server got dial back
request {libp2p_proxy_dial_back_pb}
2022-06-27 19:04:31.859 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:04:31.942 1 [info] <0.492.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:04:31.943 1 [info] <0.492.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.491.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,grpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:04:32.019 1 [error] <0.491.1>@http2_client:handle_settings:822
gen_server <0.491.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:04:32.020 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.492.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}],
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:04:32.021 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:04:32.021 1 [error] <0.491.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.491.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:04:32.022 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:04:32.022 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:04:32.022 1 [error] <0.492.1>@Undefined:Undefined:Undefined
gen_server <0.492.1> terminated with reason: connection_down
2022-06-27 19:04:32.022 1 [error] <0.492.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.492.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:04:32.023 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.491.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.122.38.248">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5162>,socket_mon =>
#Ref<0.155928093.3973578754.38883>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.492.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 19:04:32.023 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.492.1>,connection_down}
2022-06-27 19:04:33.420 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 19:04:35.769 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:04:36.616 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:04:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:04:36.616 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:04:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:04:36.618 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5038,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:04:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:04:42.025 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:04:42.260 1 [info] <0.514.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:04:42.262 1 [info] <0.514.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"44.229.159.157">>,http_connection => <0.513.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:04:42.492 1 [error] <0.513.1>@http2_client:handle_settings:822
gen_server <0.513.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:04:42.496 1 [error] <0.513.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.513.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:04:42.496 1 [error] <0.514.1>@Undefined:Undefined:Undefined
gen_server <0.514.1> terminated with reason: connection_down
2022-06-27 19:04:42.497 1 [error] <0.514.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.514.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:04:42.498 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.514.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:04:42.499 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:04:42.500 1 [warning]
```



<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 19:04:42.500 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:04:42.503 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.513.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{56, {<<":authority">>,<<"44.229.159.157">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "44.229.159.157",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5163>,socket\_mon => #Ref<0.155928093.3973578754.39016>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.514.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}}  
2022-06-27 19:04:42.504 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.514.1>,connection\_down}  
2022-06-27 19:04:45.906 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:04:52.502 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.228.115.118": {gateway\_validators\_req\_v1\_pb,1}

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2022-06-27 19:04:52.781 1 [info] <0.523.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:04:52.782 1 [info] <0.523.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.522.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:04:53.058 1 [error] <0.522.1>@http2_client:handle_settings:822
gen_server <0.522.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:04:53.058 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.523.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:04:53.059 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:04:53.059 1 [error] <0.522.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.522.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:04:53.059 1 [error] <0.523.1>@Undefined:Undefined:Undefined
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gen\_server <0.523.1> terminated with reason: connection\_down  
2022-06-27 19:04:53.060 1 [error] <0.523.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.523.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:04:53.060 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 19:04:53.060 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 19:04:53.062 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.522.1>,{function\_clause,  
[http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,  
{<<":authority">>,<<"18.228.115.118">>}}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "18.228.115.118",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5164>,socket\_mon =>  
#Ref<0.155928093.3973316611.151885>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.523.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 19:04:53.062 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.523.1>,connection\_down}  
2022-06-27 19:04:56.042 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from

12291671073248440251 on 56833

2022-06-27 19:05:03.063 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.137.92.200":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 19:05:03.230 1 [info] <0.541.1>@grpc\_client\_stream\_custom:init:

{131,9} init stream for RPC validators and type unary

2022-06-27 19:05:03.231 1 [info] <0.541.1>@grpc\_client\_stream\_custom:init:

{133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"3.137.92.200">>,http\_connection => <0.540.1>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}},name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 19:05:03.399 1 [error] <0.540.1>@http2\_client:handle\_settings:822

gen\_server <0.540.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 19:05:03.400 1 [error] <0.540.1>@http2\_client:handle\_settings:822

CRASH REPORT Process <0.540.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 19:05:03.401 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.541.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},

{miner\_poc\_grpc\_client\_statem,setup,3,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},

{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}

```
2022-06-27 19:05:03.401 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:05:03.402 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:05:03.402 1 [error] <0.541.1>@Undefined:Undefined:Undefined
gen_server <0.541.1> terminated with reason: connection_down
2022-06-27 19:05:03.402 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:05:03.402 1 [error] <0.541.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.541.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:05:03.403 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.540.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5165>,socket_mon =>
#Ref<0.155928093.3973316611.151972>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.541.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 19:05:03.404 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.541.1>,connection\_down}

2022-06-27 19:05:04.255 1 [info] <0.1662.0>@blockchain\_worker:target\_sync:{836,5} targeted block sync starting with Pid: <0.543.1>, Ref: #Ref<0.155928093.3974103041.56704>, Peer: "/p2p/11W9kbKnqvfLpXAWN1SLtV8MYtLcFZXqVJn3Kx1eoAjipmXQH9S"

2022-06-27 19:05:06.185 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 19:05:06.618 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 19:05:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 19:05:06.619 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 19:05:06 GMT">>,<<"txnb">> => 0}

2022-06-27 19:05:06.621 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:{440,5} Gateway #gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5042,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 19:05:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 19:05:13.405 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.230.8.198": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 19:05:13.687 1 [info] <0.549.1>@grpc\_client\_stream\_custom:init:{131,9} init stream for RPC validators and type unary

2022-06-27 19:05:13.690 1 [info] <0.549.1>@grpc\_client\_stream\_custom:init:{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"18.230.8.198">>,http\_connection => <0.548.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 19:05:13.960 1 [error] <0.548.1>@http2\_client:handle\_settings:822

```
gen_server <0.548.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:05:13.963 1 [error] <0.548.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.548.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:05:13.963 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.549.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:05:13.963 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:05:13.963 1 [error] <0.549.1>@Undefined:Undefined:Undefined
gen_server <0.549.1> terminated with reason: connection_down
2022-06-27 19:05:13.963 1 [error] <0.549.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.549.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:05:13.963 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:05:13.963 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:05:13.965 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.548.1>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5166>,socket_mon =>
#Ref<0.155928093.3973316611.152389>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.549.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:05:13.966 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.549.1>,connection_down}
2022-06-27 19:05:16.322 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:05:23.965 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:05:24.203 1 [info] <0.557.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:05:24.205 1 [info] <0.557.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.556.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```



```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:05:24.561 1 [error] <0.556.1>@http2_client:handle_settings:822
gen_server <0.556.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:05:24.564 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.557.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:05:24.564 1 [error] <0.556.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.556.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:05:24.565 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:05:24.565 1 [error] <0.557.1>@Undefined:Undefined:Undefined
gen_server <0.557.1> terminated with reason: connection_down
2022-06-27 19:05:24.566 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:05:24.566 1 [error] <0.557.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.557.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:05:24.566 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:05:24.569 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.556.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[[42, {<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66, {<<"content-type">>,<<"application/grpc+proto">>}],{56, {<<":authority">>,<<"52.220.227.216">>}],{63,{<<":path">>,<<"/helium.gateway/validators">>}]}],host => "52.220.227.216",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5167>,socket\_mon => #Ref<0.155928093.3973316611.152483>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.557.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}]  
2022-06-27 19:05:24.570 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.557.1>,connection\_down}  
2022-06-27 19:05:26.462 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:05:34.569 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.228.158.83":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:05:34.849 1 [info] <0.560.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 19:05:34.851 1 [info] <0.560.1>@grpc\_client\_stream\_custom:init:

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{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.559.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:05:35.120 1 [error] <0.559.1>@http2_client:handle_settings:822
gen_server <0.559.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:05:35.122 1 [error] <0.559.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.559.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:05:35.123 1 [error] <0.560.1>@Undefined:Undefined:Undefined
gen_server <0.560.1> terminated with reason: connection_down
2022-06-27 19:05:35.123 1 [error] <0.560.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.560.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:05:35.123 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.560.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:05:35.123 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 19:05:35.124 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:05:35.124 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:05:35.126 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.559.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5168>,socket_mon =>
#Ref<0.155928093.3973316611.152838>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.560.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 19:05:35.126 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.560.1>,connection_down}
2022-06-27 19:05:36.606 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:05:36.621 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
```

```
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:05:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:05:36.622 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:05:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:05:36.623 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5046,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:05:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:05:45.126 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:05:45.463 1 [info] <0.583.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:05:45.464 1 [info] <0.583.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.582.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:05:45.796 1 [error] <0.582.1>@http2_client:handle_settings:822
gen_server <0.582.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:05:45.797 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.583.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

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{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:05:45.797 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:05:45.797 1 [error] <0.582.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.582.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:05:45.798 1 [error] <0.583.1>@Undefined:Undefined:Undefined
gen_server <0.583.1> terminated with reason: connection_down
2022-06-27 19:05:45.798 1 [error] <0.583.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.583.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:05:45.799 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:05:45.799 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:05:45.800 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.582.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5169>,socket_mon =>
#Ref<0.155928093.3973578754.39879>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.583.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:05:45.801 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.583.1>,connection_down}
2022-06-27 19:05:46.748 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:05:55.801 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:05:55.884 1 [info] <0.587.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:05:55.886 1 [info] <0.587.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.586.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:05:55.963 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.587.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:05:55.964 1 [error] <0.586.1>@http2_client:handle_settings:822
gen_server <0.586.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:05:55.964 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:05:55.966 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:05:55.966 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:05:55.966 1 [error] <0.586.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.586.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:05:55.969 1 [error] <0.587.1>@Undefined:Undefined:Undefined
gen_server <0.587.1> terminated with reason: connection_down
2022-06-27 19:05:55.970 1 [error] <0.587.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.587.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:05:55.971 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.586.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
```



```
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5170>,socket_mon =>
#Ref<0.155928093.3973316611.153322>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.587.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 19:05:55.972 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.587.1>,connection_down}
2022-06-27 19:05:56.890 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:06:05.969 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:06:06.203 1 [info] <0.601.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:06:06.204 1 [info] <0.601.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.600.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:06:06.434 1 [error] <0.600.1>@http2_client:handle_settings:822
gen_server <0.600.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:06:06.437 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.601.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:06:06.438 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:06:06.438 1 [error] <0.600.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.600.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:06:06.439 1 [error] <0.601.1>@Undefined:Undefined:Undefined
gen_server <0.601.1> terminated with reason: connection_down
2022-06-27 19:06:06.439 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:06:06.439 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:06:06.440 1 [error] <0.601.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.601.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:06:06.444 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.600.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"44.229.159.157">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5171>,socket_mon =>
#Ref<0.155928093.3973578754.40167>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.601.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:06:06.445 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.601.1>,connection_down}
2022-06-27 19:06:06.625 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:06:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:06:06.625 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:06:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:06:06.626 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5049,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:06:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
```

```
2022-06-27 19:06:07.035 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:06:16.442 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:06:16.670 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 19:06:16.717 1 [info] <0.608.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:06:16.718 1 [info] <0.608.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.607.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:06:16.990 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.608.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:06:16.990 1 [error] <0.607.1>@http2_client:handle_settings:822
gen_server <0.607.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:06:16.990 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 19:06:16.991 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 19:06:16.991 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 19:06:16.992 1 [error] <0.607.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.607.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 19:06:16.992 1 [error] <0.608.1>@Undefined:Undefined:Undefined  
gen\_server <0.608.1> terminated with reason: connection\_down  
2022-06-27 19:06:16.993 1 [error] <0.608.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.608.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:06:16.993 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.607.1>,{function\_clause,  
[http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "18.230.8.198",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5172>,socket\_mon =>  
#Ref<0.155928093.3973578754.40487>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.608.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]},

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:06:16.994 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.608.1>,connection_down}
2022-06-27 19:06:17.175 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:06:26.994 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:06:27.270 1 [info] <0.616.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:06:27.272 1 [info] <0.616.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.615.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:06:27.325 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:06:27.539 1 [error] <0.615.1>@http2_client:handle_settings:822
gen_server <0.615.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:06:27.541 1 [error] <0.615.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.615.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:06:27.543 1 [error] <0.616.1>@Undefined:Undefined:Undefined
gen_server <0.616.1> terminated with reason: connection_down
2022-06-27 19:06:27.545 1 [error] <0.616.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.616.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:06:27.547 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.616.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 19:06:27.548 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 19:06:27.549 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 19:06:27.549 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 19:06:27.551 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.615.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"18.228.158.83">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "18.228.158.83",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

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16384},server_window => 65528,socket => #Port<0.5173>,socket_mon =>
#Ref<0.155928093.3973578754.40609>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.616.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 19:06:27.552 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.616.1>,connection_down}
2022-06-27 19:06:36.630 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:06:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:06:36.631 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:06:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:06:36.633 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5053,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:06:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:06:37.472 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:06:37.552 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:06:37.718 1 [info] <0.620.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:06:37.721 1 [info] <0.620.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```



```
<<"3.13.130.184">>,http_connection => <0.619.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:06:37.883 1 [error] <0.619.1>@http2_client:handle_settings:822
gen_server <0.619.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:06:37.885 1 [error] <0.619.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.619.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:06:37.885 1 [error] <0.620.1>@Undefined:Undefined:Undefined
gen_server <0.620.1> terminated with reason: connection_down
2022-06-27 19:06:37.886 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.620.1>,{rcv,10000},infinity]}} , Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:06:37.886 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:06:37.886 1 [error] <0.620.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.620.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:06:37.887 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 19:06:37.887 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:06:37.889 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.619.1>,{function\_clause, [{http2\_client,handle\_settings, [[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.13.130.184",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5174>,socket\_mon => #Ref<0.155928093.3973578754.40685>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.620.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}}  
2022-06-27 19:06:37.889 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.620.1>,connection\_down}  
2022-06-27 19:06:46.047 1 [info] <0.1662.0>@blockchain\_worker:target\_sync: {836,5} targeted block sync starting with Pid: <0.626.1>, Ref: #Ref<0.155928093.3973316611.154430>, Peer: "/p2p/11W9kbKnqvfLpXAWN1SLtV8MYtLcFZXqVJn3Kx1eoAjipmXQH9S"  
2022-06-27 19:06:47.623 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

```
2022-06-27 19:06:47.890 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:06:48.054 1 [info] <0.635.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:06:48.055 1 [info] <0.635.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.634.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:06:48.302 1 [error] <0.634.1>@http2_client:handle_settings:822
gen_server <0.634.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:06:48.303 1 [error] <0.634.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.634.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:06:48.303 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.635.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:06:48.303 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 19:06:48.303 1 [error] <0.635.1>@Undefined:Undefined:Undefined gen\_server <0.635.1> terminated with reason: connection\_down

2022-06-27 19:06:48.304 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:06:48.304 1 [error] <0.635.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.635.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:06:48.304 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:06:48.305 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.634.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.131.232.233",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5175>,socket\_mon => #Ref<0.155928093.3973316611.154674>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.635.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 19:06:48.306 1 [warning]

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<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.635.1>,connection_down}
2022-06-27 19:06:57.765 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:06:58.306 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:06:58.586 1 [info] <0.650.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:06:58.588 1 [info] <0.650.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.649.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:06:58.860 1 [error] <0.649.1>@http2_client:handle_settings:822
gen_server <0.649.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:06:58.861 1 [error] <0.649.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.649.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:06:58.861 1 [error] <0.650.1>@Undefined:Undefined:Undefined
gen_server <0.650.1> terminated with reason: connection_down
2022-06-27 19:06:58.862 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.650.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

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{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:06:58.862 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:06:58.862 1 [error] <0.650.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.650.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:06:58.862 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:06:58.863 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:06:58.864 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.649.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5176>,socket_mon =>
#Ref<0.155928093.3973578754.41148>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.650.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

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{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:06:58.864 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.650.1>,connection_down}
2022-06-27 19:07:06.623 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:07:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:07:06.623 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:07:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:07:06.625 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5057,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:07:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:07:07.912 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:07:08.865 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:07:10.116 1 [info] <0.660.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:07:10.118 1 [info] <0.660.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.655.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:07:10.373 1 [error] <0.655.1>@http2_client:handle_settings:822
```

```
gen_server <0.655.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:07:10.374 1 [error] <0.655.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.655.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:07:10.375 1 [error] <0.660.1>@Undefined:Undefined:Undefined
gen_server <0.660.1> terminated with reason: connection_down
2022-06-27 19:07:10.375 1 [error] <0.660.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.660.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:07:10.376 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.660.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:07:10.377 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:07:10.377 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:07:10.377 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:07:10.379 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.655.1>,{function_clause,
```



```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5177>,socket_mon =>
#Ref<0.155928093.3973578754.41550>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.660.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:07:10.379 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.660.1>,connection_down}
2022-06-27 19:07:18.062 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:07:20.379 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:07:20.656 1 [info] <0.671.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:07:20.657 1 [info] <0.671.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.670.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:07:20.931 1 [error] <0.670.1>@http2_client:handle_settings:822
gen_server <0.670.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:07:20.933 1 [error] <0.670.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.670.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:07:20.933 1 [error] <0.671.1>@Undefined:Undefined:Undefined
gen_server <0.671.1> terminated with reason: connection_down
2022-06-27 19:07:20.934 1 [error] <0.671.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.671.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:07:20.935 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.671.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:07:20.935 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:07:20.936 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:07:20.936 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:07:20.939 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.670.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {56, {<<":authority">>,<<"54.207.131.103">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "54.207.131.103",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5178>,socket\_mon => #Ref<0.155928093.3973316611.155418>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.671.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}

2022-06-27 19:07:20.940 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.671.1>,connection\_down}

2022-06-27 19:07:21.671 1 [info]

<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for peerbook <0.1643.0>

2022-06-27 19:07:28.208 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 19:07:30.939 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.132.190.192": {gateway\_validators\_req\_v1\_pb,1}

```
2022-06-27 19:07:32.108 1 [info] <0.682.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:07:32.109 1 [info] <0.682.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.681.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:07:32.271 1 [error] <0.681.1>@http2_client:handle_settings:822
gen_server <0.681.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:07:32.272 1 [error] <0.681.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.681.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:07:32.273 1 [error] <0.682.1>@Undefined:Undefined:Undefined
gen_server <0.682.1> terminated with reason: connection_down
2022-06-27 19:07:32.273 1 [error] <0.682.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.682.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:07:32.275 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.682.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 19:07:32.276 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:07:32.276 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:07:32.277 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:07:32.279 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.681.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5179>,socket_mon =>
#Ref<0.155928093.3973578754.41761>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.682.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}
2022-06-27 19:07:32.280 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.682.1>,connection_down}
2022-06-27 19:07:36.626 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
```

```
#{"stat": 0, "ackr": 0.0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0.0, "time": "2022-06-27 19:07:36 GMT", "txnb": 0} from
12291671073248440251 on 35152
2022-06-27 19:07:36.626 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{"ackr": 0.0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0.0, "time": "2022-06-27 19:07:36 GMT", "txnb": 0}
2022-06-27 19:07:36.628 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5061,dropped=0,status=#{"ackr": 0.0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0.0, "time": "2022-06-27 19:07:36 GMT", "txnb": 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:07:38.352 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:07:42.280 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:07:42.372 1 [info] <0.685.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:07:42.374 1 [info] <0.685.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.684.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:07:42.456 1 [error] <0.684.1>@http2_client:handle_settings:822
gen_server <0.684.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:07:42.458 1 [error] <0.684.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.684.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 19:07:42.458 1 [error] <0.685.1>@Undefined:Undefined:Undefined
gen_server <0.685.1> terminated with reason: connection_down
2022-06-27 19:07:42.459 1 [error] <0.685.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.685.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:07:42.459 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.685.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:07:42.460 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:07:42.460 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:07:42.461 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:07:42.463 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.684.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
```

```
{<<":authority">>,<<"52.210.14.128">>},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5180>,socket_mon =>
#Ref<0.155928093.3973316611.155800>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.685.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:07:42.463 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.685.1>,connection_down}
2022-06-27 19:07:48.485 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:07:52.463 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:07:52.544 1 [info] <0.694.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:07:52.545 1 [info] <0.694.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.693.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:07:52.621 1 [error] <0.693.1>@http2_client:handle_settings:822
gen_server <0.693.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```



```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 19:07:52.622 1 [error] <0.693.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.693.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 19:07:52.625 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.694.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:07:52.625 1 [error] <0.694.1>@Undefined:Undefined:Undefined
gen_server <0.694.1> terminated with reason: connection_down
2022-06-27 19:07:52.625 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:07:52.625 1 [error] <0.694.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.694.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:07:52.625 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:07:52.625 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:07:52.627 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.693.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5181>,socket_mon =>
#Ref<0.155928093.3973578754.41916>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.694.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:07:52.628 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.694.1>,connection_down}
2022-06-27 19:07:58.415 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 19:07:58.645 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:08:02.628 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:08:02.900 1 [info] <0.711.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:08:02.901 1 [info] <0.711.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.710.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:08:03.166 1 [error] <0.710.1>@http2_client:handle_settings:822
gen_server <0.710.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:08:03.170 1 [error] <0.710.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.710.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:08:03.170 1 [error] <0.711.1>@Undefined:Undefined:Undefined
gen_server <0.711.1> terminated with reason: connection_down
2022-06-27 19:08:03.170 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.711.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:08:03.171 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:08:03.171 1 [error] <0.711.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.711.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:08:03.172 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:08:03.172 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

2022-06-27 19:08:03.176 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.710.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5182>,socket_mon =>
#Ref<0.155928093.3973578754.42071>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.711.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 19:08:03.176 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.711.1>,connection_down}
```

2022-06-27 19:08:06.626 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:08:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

```
2022-06-27 19:08:06.627 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:08:06 GMT">>,<<"txnb">> => 0}
```

```
2022-06-27 19:08:06.628 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5065,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:08:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:08:08.779 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:08:13.175 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:08:13.266 1 [info] <0.722.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:08:13.267 1 [info] <0.722.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.721.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:08:13.347 1 [error] <0.721.1>@http2_client:handle_settings:822
gen_server <0.721.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:08:13.349 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.722.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 19:08:13.349 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:08:13.349 1 [error] <0.721.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.721.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:08:13.350 1 [error] <0.722.1>@Undefined:Undefined:Undefined
gen_server <0.722.1> terminated with reason: connection_down
2022-06-27 19:08:13.350 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:08:13.350 1 [error] <0.722.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.722.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811 2022-06-27
19:08:13.350 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:08:13.352 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.721.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5183>,socket_mon =>
#Ref<0.155928093.3973578754.42230>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.722.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 19:08:13.353 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.722.1>,connection_down}
2022-06-27 19:08:18.932 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:08:23.353 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:08:23.687 1 [info] <0.734.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:08:23.688 1 [info] <0.734.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.733.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:08:24.016 1 [error] <0.733.1>@http2_client:handle_settings:822
gen_server <0.733.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:08:24.018 1 [error] <0.733.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.733.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:08:24.018 1 [error] <0.734.1>@Undefined:Undefined:Undefined
gen_server <0.734.1> terminated with reason: connection_down
2022-06-27 19:08:24.019 1 [error] <0.734.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.734.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:08:24.019 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.734.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]}]  
2022-06-27 19:08:24.020 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 19:08:24.020 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 19:08:24.020 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 19:08:24.022 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.733.1>,{function\_clause,  
[{"http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[],},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"13.211.55.217">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "13.211.55.217",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
<=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>



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16384},server_window => 65528,socket => #Port<0.5184>,socket_mon =>
#Ref<0.155928093.3973578754.42389>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.734.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:08:24.023 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.734.1>,connection_down}
2022-06-27 19:08:29.083 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:08:31.318 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.737.1>, Ref:
#Ref<0.155928093.3973316611.156792>, Peer: "/p2p/
11W9kbKnqvfLpXAWN1SLtV8MYtLcFZXqVJn3Kx1eoAjipmXQH9S"
2022-06-27 19:08:34.023 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:08:34.295 1 [info] <0.744.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:08:34.296 1 [info] <0.744.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.741.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:08:34.570 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.744.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

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[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 19:08:34.571 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:08:34.572 1 [error] <0.741.1>@http2_client:handle_settings:822
gen_server <0.741.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:08:34.572 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:08:34.572 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:08:34.573 1 [error] <0.741.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.741.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:08:34.574 1 [error] <0.744.1>@Undefined:Undefined:Undefined
gen_server <0.744.1> terminated with reason: connection_down
2022-06-27 19:08:34.574 1 [error] <0.744.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.744.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:08:34.575 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.741.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

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16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5185>,socket_mon =>
#Ref<0.155928093.3973316611.156944>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.744.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:08:34.576 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.744.1>,connection_down}
2022-06-27 19:08:36.626 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:08:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:08:36.627 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:08:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:08:36.628 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5069,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:08:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:08:39.232 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 19:08:44.575 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:08:44.853 1 [info] <0.749.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:08:44.854 1 [info] <0.749.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.748.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:08:45.126 1 [error] <0.748.1>@http2_client:handle_settings:822
gen_server <0.748.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:08:45.127 1 [error] <0.748.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.748.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:08:45.129 1 [error] <0.749.1>@Undefined:Undefined:Undefined
gen_server <0.749.1> terminated with reason: connection_down
2022-06-27 19:08:45.129 1 [error] <0.749.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.749.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:08:45.129 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.749.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:08:45.130 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:08:45.131 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:08:45.131 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:08:45.132 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.748.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"18.228.158.83">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5186>,socket_mon =>
#Ref<0.155928093.3974103041.59301>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.749.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:08:45.133 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.749.1>,connection_down}
2022-06-27 19:08:49.369 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:08:55.134 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:08:55.298 1 [info] <0.754.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:08:55.300 1 [info] <0.754.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.753.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:08:55.455 1 [error] <0.753.1>@http2_client:handle_settings:822
gen_server <0.753.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:08:55.457 1 [error] <0.753.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.753.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:08:55.457 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.754.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:08:55.457 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:08:55.457 1 [error] <0.754.1>@Undefined:Undefined:Undefined
gen_server <0.754.1> terminated with reason: connection_down
2022-06-27 19:08:55.458 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:08:55.458 1 [error] <0.754.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.754.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:08:55.458 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:08:55.459 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.753.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5187>,socket_mon =>
#Ref<0.155928093.3974103041.59352>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.754.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:08:55.460 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.754.1>,connection_down}
2022-06-27 19:08:59.526 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:09:05.461 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:09:05.701 1 [info] <0.775.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:09:05.703 1 [info] <0.775.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.774.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:09:05.930 1 [error] <0.774.1>@http2_client:handle_settings:822
gen_server <0.774.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:09:05.932 1 [error] <0.774.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.774.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:09:05.932 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.775.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```



```
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 19:09:05.932 1 [error] <0.775.1>@Undefined:Undefined:Undefined
gen_server <0.775.1> terminated with reason: connection_down
2022-06-27 19:09:05.932 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:09:05.932 1 [error] <0.775.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.775.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:09:05.932 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:09:05.932 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:09:05.934 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.774.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.215.75.202">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5188>,socket_mon =>
#Ref<0.155928093.3974103041.59468>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.775.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 19:09:05.934 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.775.1>,connection_down}
2022-06-27 19:09:06.625 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:09:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:09:06.626 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:09:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:09:06.627 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5073,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:09:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:09:09.682 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:09:15.935 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:09:16.271 1 [info] <0.780.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:09:16.272 1 [info] <0.780.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.779.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:09:16.600 1 [error] <0.779.1>@http2_client:handle_settings:822
gen_server <0.779.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:09:16.602 1 [error] <0.779.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.779.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:09:16.602 1 [error] <0.780.1>@Undefined:Undefined:Undefined
gen_server <0.780.1> terminated with reason: connection_down
2022-06-27 19:09:16.603 1 [error] <0.780.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.780.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:09:16.603 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.780.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:09:16.604 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:09:16.604 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:09:16.605 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:09:16.606 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.779.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[[42, {<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66, {<<"content-type">>,<<"application/grpc+proto">>}],{53, {<<":authority">>,<<"3.104.32.11">>}],{63,{<<":path">>,<<"/helium.gateway/validators">>}]}],host => "3.104.32.11",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5189>,socket\_mon => #Ref<0.155928093.3973578754.43257>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.780.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}]  
2022-06-27 19:09:16.606 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.780.1>,connection\_down}  
2022-06-27 19:09:19.833 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:09:26.608 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.72.143.228":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:09:26.693 1 [info] <0.792.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 19:09:26.693 1 [info] <0.792.1>@grpc\_client\_stream\_custom:init:

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.791.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:09:26.770 1 [error] <0.791.1>@http2_client:handle_settings:822
gen_server <0.791.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:09:26.771 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.792.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:09:26.771 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:09:26.771 1 [error] <0.791.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.791.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:09:26.772 1 [error] <0.792.1>@Undefined:Undefined:Undefined
gen_server <0.792.1> terminated with reason: connection_down
2022-06-27 19:09:26.772 1 [error] <0.792.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.792.1> with 0 neighbours exited with reason:
```

connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:09:26.773 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 19:09:26.773 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 19:09:26.774 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.791.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "3.72.143.228",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
>=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5190>,socket\_mon =>  
#Ref<0.155928093.3973316611.157998>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.792.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 19:09:26.775 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.792.1>,connection\_down}  
2022-06-27 19:09:29.972 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:09:36.627 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA

```
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:09:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:09:36.628 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:09:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:09:36.629 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5077,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:09:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:09:36.775 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:09:36.866 1 [info] <0.796.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:09:36.869 1 [info] <0.796.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.795.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:09:36.950 1 [error] <0.795.1>@http2_client:handle_settings:822
gen_server <0.795.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:09:36.951 1 [error] <0.795.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.795.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:09:36.952 1 [error] <0.796.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.796.1> terminated with reason: connection_down
2022-06-27 19:09:36.953 1 [error] <0.796.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.796.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:09:36.953 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.796.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:09:36.953 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:09:36.954 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:09:36.954 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:09:36.956 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.795.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```



```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5191>,socket_mon =>
#Ref<0.155928093.3973578754.43809>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.796.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:09:36.956 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.796.1>,connection_down}
2022-06-27 19:09:40.118 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:09:44.732 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 19:09:46.957 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:09:48.244 1 [info] <0.803.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:09:48.247 1 [info] <0.803.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.802.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:09:48.511 1 [error] <0.802.1>@http2_client:handle_settings:822
gen_server <0.802.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 19:09:48.512 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.803.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 19:09:48.512 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 19:09:48.512 1 [error] <0.802.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.802.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 19:09:48.513 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 19:09:48.513 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 19:09:48.513 1 [error] <0.803.1>@Undefined:Undefined:Undefined
gen_server <0.803.1> terminated with reason: connection_down
```

```
2022-06-27 19:09:48.513 1 [error] <0.803.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.803.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 19:09:48.515 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.802.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"18.228.158.83">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5192>,socket_mon =>
#Ref<0.155928093.3973578754.44049>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.803.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:09:48.516 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.803.1>,connection_down}
2022-06-27 19:09:50.262 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:09:53.084 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 4,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAHtBWoHAPiUACA6ok3SgvySoKXCM6Fk2VYQzopwRp24AzYfmvyv340
354wW2mCzSw==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
-700,<<"freq">> => 867.3,<<"jver">> => 1,<<"lsnr">> => 0.8,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -104,<<"rssi_s">>
=> -105,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 4149082802}}} from
12291671073248440251 on 35152
2022-06-27 19:09:58.514 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:09:58.596 1 [info] <0.807.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:09:58.597 1 [info] <0.807.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.806.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:09:58.674 1 [error] <0.806.1>@http2_client:handle_settings:822
gen_server <0.806.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:09:58.676 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.807.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:09:58.677 1 [error] <0.806.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.806.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:09:58.677 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:09:58.678 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:09:58.678 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

validator failed: {error,req\_failed}  
2022-06-27 19:09:58.679 1 [error] <0.807.1>@Undefined:Undefined:Undefined  
gen\_server <0.807.1> terminated with reason: connection\_down  
2022-06-27 19:09:58.679 1 [error] <0.807.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.807.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:09:58.681 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.806.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "3.122.38.248",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5193>,socket\_mon =>  
#Ref<0.155928093.3973578754.44276>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.807.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}  
2022-06-27 19:09:58.682 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.807.1>,connection\_down}  
2022-06-27 19:10:00.419 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:10:02.428 1 [info] <0.1662.0>@blockchain\_worker:target\_sync:  
{836,5} targeted block sync starting with Pid: <0.812.1>, Ref:  
#Ref<0.155928093.3973578754.44401>, Peer: "/p2p/

```
11W9kbKnqvfLpXAWN1SLtV8MYtLcFZXqVJn3Kx1eoAjipmXQH9S"
2022-06-27 19:10:06.630 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:10:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:10:06.630 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:10:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:10:06.632 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5081,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:10:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:10:08.680 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:10:08.848 1 [info] <0.833.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:10:08.850 1 [info] <0.833.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.832.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,grpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:10:09.036 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.833.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:10:09.037 1 [error] <0.832.1>@http2_client:handle_settings:822
gen_server <0.832.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:10:09.037 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:10:09.037 1 [error] <0.832.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.832.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:10:09.038 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:10:09.038 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:10:09.038 1 [error] <0.833.1>@Undefined:Undefined:Undefined
gen_server <0.833.1> terminated with reason: connection_down
2022-06-27 19:10:09.039 1 [error] <0.833.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.833.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:10:09.043 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.832.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5194>,socket_mon =>
#Ref<0.155928093.3973578754.44731>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.833.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 19:10:09.044 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.833.1>,connection_down}
2022-06-27 19:10:10.569 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:10:19.041 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:10:19.310 1 [info] <0.836.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:10:19.313 1 [info] <0.836.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.835.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:10:19.578 1 [error] <0.835.1>@http2_client:handle_settings:822
gen_server <0.835.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```



2022-06-27 19:10:19.579 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.836.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]}

2022-06-27 19:10:19.579 1 [error] <0.835.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.835.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:10:19.579 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 19:10:19.579 1 [error] <0.836.1>@Undefined:Undefined:Undefined  
gen\_server <0.836.1> terminated with reason: connection\_down

2022-06-27 19:10:19.580 1 [error] <0.836.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.836.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:10:19.580 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 19:10:19.580 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 19:10:19.582 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.835.1>,{function\_clause,  
[{"http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{54,
{<<":authority">>,<<"3.39.165.144">>}}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5195>,socket_mon =>
#Ref<0.155928093.3973578754.44969>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.836.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 19:10:19.583 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.836.1>,connection_down}
2022-06-27 19:10:20.708 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:10:29.583 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:10:29.864 1 [info] <0.849.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:10:29.866 1 [info] <0.849.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.848.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:10:30.138 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.849.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:10:30.138 1 [error] <0.848.1>@http2_client:handle_settings:822
gen_server <0.848.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:10:30.138 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:10:30.139 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:10:30.139 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:10:30.139 1 [error] <0.848.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.848.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:10:30.139 1 [error] <0.849.1>@Undefined:Undefined:Undefined
gen_server <0.849.1> terminated with reason: connection_down
2022-06-27 19:10:30.140 1 [error] <0.849.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.849.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:10:30.141 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.848.1>,{function_clause,
```

```
{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5196>,socket_mon =>
#Ref<0.155928093.3973578754.45245>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.849.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:10:30.142 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.849.1>,connection_down}
2022-06-27 19:10:30.853 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:10:36.637 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:10:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:10:36.639 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:10:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:10:36.641 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5085,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:10:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:10:40.142 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:10:40.418 1 [info] <0.852.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:10:40.420 1 [info] <0.852.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.851.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:10:40.693 1 [error] <0.851.1>@http2_client:handle_settings:822
gen_server <0.851.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:10:40.693 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.852.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:10:40.694 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 19:10:40.695 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:10:40.695 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:10:40.696 1 [error] <0.851.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.851.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:10:40.697 1 [error] <0.852.1>@Undefined:Undefined:Undefined
gen_server <0.852.1> terminated with reason: connection_down
2022-06-27 19:10:40.698 1 [error] <0.852.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.852.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:10:40.701 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.851.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.209.94.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5197>,socket_mon =>
#Ref<0.155928093.3973578754.45450>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.852.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:10:40.702 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.852.1>,connection_down}
2022-06-27 19:10:41.009 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:10:50.698 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:10:50.925 1 [info] <0.860.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:10:50.926 1 [info] <0.860.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.859.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:10:51.165 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:10:51.439 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.860.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}],{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:10:51.439 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 19:10:51.440 1 [error] <0.859.1>@http2\_client:handle\_settings:822 gen\_server <0.859.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 19:10:51.441 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:10:51.441 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:10:51.442 1 [error] <0.859.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.859.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 19:10:51.443 1 [error] <0.860.1>@Undefined:Undefined:Undefined gen\_server <0.860.1> terminated with reason: connection\_down

2022-06-27 19:10:51.445 1 [error] <0.860.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.860.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:10:51.446 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.859.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "52.89.130.114",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5198>,socket\_mon =>



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#Ref<0.155928093.3973578754.45655>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.860.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 19:10:51.447 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.860.1>,connection_down}
2022-06-27 19:10:54.061 1 [info] <0.1636.0>@libp2p_peerbook:notify_peers:
{726,5} gossiping out 1245 notify peers
2022-06-27 19:11:01.314 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:11:01.444 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:11:01.677 1 [info] <0.865.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:11:01.678 1 [info] <0.865.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.864.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:11:01.904 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.865.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}],
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl",{line,418}}],{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
```

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{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:11:01.904 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:11:01.905 1 [error] <0.864.1>@http2_client:handle_settings:822
gen_server <0.864.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:11:01.905 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:11:01.905 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:11:01.906 1 [error] <0.864.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.864.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:11:01.906 1 [error] <0.865.1>@Undefined:Undefined:Undefined
gen_server <0.865.1> terminated with reason: connection_down
2022-06-27 19:11:01.906 1 [error] <0.865.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.865.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:11:01.907 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.864.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5199>,socket_mon =>
#Ref<0.155928093.3973578754.46047>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.865.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]]}}
2022-06-27 19:11:01.908 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.865.1>,connection_down}
2022-06-27 19:11:06.633 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:11:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:11:06.633 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:11:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:11:06.635 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5089,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:11:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:11:11.466 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:11:11.908 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 19:11:12.075 1 [info] <0.868.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:11:12.077 1 [info] <0.868.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.867.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:11:12.240 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.868.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:11:12.240 1 [error] <0.867.1>@http2_client:handle_settings:822
gen_server <0.867.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:11:12.241 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:11:12.243 1 [error] <0.867.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.867.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:11:12.246 1 [error] <0.868.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.868.1> terminated with reason: connection_down
2022-06-27 19:11:12.246 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:11:12.246 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:11:12.246 1 [error] <0.868.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.868.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:11:12.248 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.867.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5200>,socket_mon =>
#Ref<0.155928093.3973578754.46328>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.868.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:11:12.249 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.868.1>,connection_down}
2022-06-27 19:11:17.202 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
```

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2022-06-27 19:11:21.608 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:11:22.248 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:11:22.525 1 [info] <0.872.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:11:22.528 1 [info] <0.872.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.871.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:11:22.790 1 [error] <0.871.1>@http2_client:handle_settings:822
gen_server <0.871.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:11:22.790 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.872.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:11:22.790 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 19:11:22.791 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:11:22.791 1 [error] <0.871.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.871.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>, client\_settings => #{enable\_push => 0, header\_table\_size => 4096, initial\_window\_size => ..., ..., ...}) line 822

2022-06-27 19:11:22.791 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error, req\_failed}

2022-06-27 19:11:22.792 1 [error] <0.872.1>@Undefined:Undefined:Undefined  
gen\_server <0.872.1> terminated with reason: connection\_down

2022-06-27 19:11:22.793 1 [error] <0.872.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.872.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:11:22.793 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT', <0.871.1>, {function\_clause, [{http2\_client, handle\_settings, [[], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>, client\_settings => #{enable\_push => 0, header\_table\_size => 4096, initial\_window\_size => 65535, low\_water\_mark => 16384, max\_concurrent\_streams => undefined, max\_frame\_size => 16384}, client\_window => 65535, continuation\_data => undefined, decode\_state => {state, 0, 4096, 4096, []}, encode\_state => {state, 284, 4096, 4096, [{42, {<<"te">>, <<"trailers">>}}, {59, {<<"user-agent">>, <<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>, <<"application/grpc+proto">>}}, {54, {<<":authority">>, <<"18.230.8.198">>}}, {63, {<<":path">>, <<"/helium.gateway/validators">>}}]}, host => "18.230.8.198", last\_stream => 1, owner => <0.1817.0>, ping\_sent => [], port => 8080, server\_settings => #{header\_table\_size => 4096, initial\_window\_size => 65535, low\_water\_mark => 16384, max\_concurrent\_streams => undefined, max\_frame\_size => 16384}, server\_window => 65528, socket => #Port<0.5201>, socket\_mon => #Ref<0.155928093.3973578754.46620>, state => open, stream\_count => 1, streams => [{1, #{client\_initial\_window => 65535, client\_window => 65535, id => 1, owner => <0.872.1>, server\_window => 65528, state => half\_closed\_local, window\_mgmt\_data => undefined, window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}]}, timeout => 3000, transport => gen\_tcp, window\_mgmt\_data => undefined, window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}, [{file, "http2\_client.erl"}, {line, 822}], {http2\_client, handle\_packet, 2, [{file, "http2\_client.erl"}, {line, 648}]}, {gen\_server, try\_dispatch, 4, [{file, "gen\_server.erl"}, {line, 695}]},

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 19:11:22.793 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.872.1>,connection_down}
2022-06-27 19:11:31.748 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:11:32.794 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:11:32.884 1 [info] <0.880.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:11:32.885 1 [info] <0.880.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.879.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:11:32.968 1 [error] <0.879.1>@http2_client:handle_settings:822
gen_server <0.879.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:11:32.969 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.880.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
```



```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 19:11:32.969 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:11:32.970 1 [error] <0.879.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.879.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:11:32.970 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:11:32.970 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:11:32.971 1 [error] <0.880.1>@Undefined:Undefined:Undefined
gen_server <0.880.1> terminated with reason: connection_down
2022-06-27 19:11:32.971 1 [error] <0.880.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.880.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:11:32.972 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.879.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5202>,socket_mon =>
#Ref<0.155928093.3973578754.46891>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.880.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 19:11:32.972 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.880.1>,connection_down}
2022-06-27 19:11:36.631 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:11:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:11:36.631 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:11:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:11:36.633 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5093,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:11:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:11:41.899 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:11:42.972 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:11:43.139 1 [info] <0.883.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:11:43.140 1 [info] <0.883.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.882.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 19:11:43.300 1 [error] <0.882.1>@http2_client:handle_settings:822
gen_server <0.882.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:11:43.303 1 [error] <0.882.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.882.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:11:43.305 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.883.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:11:43.305 1 [error] <0.883.1>@Undefined:Undefined:Undefined
gen_server <0.883.1> terminated with reason: connection_down
2022-06-27 19:11:43.305 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:11:43.306 1 [error] <0.883.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.883.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:11:43.306 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:11:43.307 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:11:43.310 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.882.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5203>,socket_mon =>
#Ref<0.155928093.3974103041.62056>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.883.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 19:11:43.311 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.883.1>,connection_down}
2022-06-27 19:11:44.821 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.885.1>, Ref:
#Ref<0.155928093.3973578754.47171>, Peer: "/p2p/
11W9kbKnqvfLpXAWN1SLtV8MYtLcFZXqVJn3Kx1eoAjipmXQH9S"
2022-06-27 19:11:52.042 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:11:53.310 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:11:54.398 1 [info] <0.890.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 19:11:54.400 1 [info] <0.890.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.889.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:11:54.472 1 [error] <0.889.1>@http2_client:handle_settings:822
gen_server <0.889.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:11:54.473 1 [error] <0.889.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.889.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:11:54.474 1 [error] <0.890.1>@Undefined:Undefined:Undefined
gen_server <0.890.1> terminated with reason: connection_down
2022-06-27 19:11:54.475 1 [error] <0.890.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.890.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:11:54.476 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.890.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:11:54.477 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 19:11:54.478 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:11:54.478 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:11:54.482 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.889.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66, {<<"content-type">>,<<"application/grpc+proto">>}}],{54, {<<":authority">>,<<"3.122.38.248">>}}],{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.122.38.248",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5204>,socket\_mon => #Ref<0.155928093.3973054468.214710>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.890.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 19:11:54.483 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.890.1>,connection\_down}

2022-06-27 19:12:02.193 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 19:12:04.481 1 [info]

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<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:12:04.813 1 [info] <0.893.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:12:04.815 1 [info] <0.893.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.892.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:12:05.135 1 [error] <0.892.1>@http2_client:handle_settings:822
gen_server <0.892.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:12:05.137 1 [error] <0.892.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.892.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:12:05.137 1 [error] <0.893.1>@Undefined:Undefined:Undefined
gen_server <0.893.1> terminated with reason: connection_down
2022-06-27 19:12:05.138 1 [error] <0.893.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.893.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:12:05.139 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.893.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:12:05.139 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:12:05.140 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:12:05.140 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:12:05.141 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.892.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5205>,socket_mon =>
#Ref<0.155928093.3973578754.47591>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.893.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]]}
2022-06-27 19:12:05.142 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```



```
in setup state: Type: info, Msg: {'EXIT',<0.893.1>,connection_down}
2022-06-27 19:12:06.634 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:12:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:12:06.635 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:12:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:12:06.636 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5097,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:12:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:12:12.322 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:12:15.143 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:12:15.480 1 [info] <0.919.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:12:15.481 1 [info] <0.919.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.918.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:12:15.809 1 [error] <0.918.1>@http2_client:handle_settings:822
gen_server <0.918.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:12:15.810 1 [error] <0.918.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.918.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:12:15.810 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.919.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:12:15.811 1 [error] <0.919.1>@Undefined:Undefined:Undefined
gen_server <0.919.1> terminated with reason: connection_down
2022-06-27 19:12:15.811 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:12:15.811 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:12:15.811 1 [error] <0.919.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.919.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:12:15.811 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:12:15.813 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.918.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>, <<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>, <<"application/grpc+proto">>}}, {53,
{<<":authority">>, <<"3.104.32.11">>}}, {63, {<<":path">>, <<"/helium.gateway/
validators">>}}}], host => "3.104.32.11", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.5211>, socket_mon =>
#Ref<0.155928093.3973578754.47839>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.919.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file, "http2_client.erl"}, {line, 822}],
{http2_client, handle_packet, 2, [{file, "http2_client.erl"}, {line, 648}],
{gen_server, try_dispatch, 4, [{file, "gen_server.erl"}, {line, 695}],
{gen_server, handle_msg, 6, [{file, "gen_server.erl"}, {line, 771}],
{proc_lib, init_p_do_apply, 3, [{file, "proc_lib.erl"}, {line, 226}]}}]}
2022-06-27 19:12:15.813 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT', <0.919.1>, connection_down}
2022-06-27 19:12:16.664 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 6, <<"codr">> => <<"4/5">>, <<"data">> =>
<<"QGAnEgGATVMCPBaPVTRogdVGz6cza3YI+qCDWmU=">>, <<"datr">> =>
<<"SF12BW125">>, <<"foff">> => -577, <<"freq">> => 867.7, <<"jver">> =>
1, <<"lsnr">> => -19.5, <<"mid">> => 0, <<"modu">> => <<"LORA">>, <<"rfch">>
=> 0, <<"rssi">> => -112, <<"rssid">> => -130, <<"size">> => 29, <<"stat">> =>
1, <<"tmst">> => 4292662453}}] from 12291671073248440251 on 35152
2022-06-27 19:12:21.671 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1640.0>
2022-06-27 19:12:22.469 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:12:25.814 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb, 1}
2022-06-27 19:12:26.089 1 [info] <0.934.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:12:26.090 1 [info] <0.934.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>, compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.933.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:12:26.357 1 [error] <0.933.1>@http2_client:handle_settings:822
gen_server <0.933.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:12:26.360 1 [error] <0.933.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.933.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:12:26.361 1 [error] <0.934.1>@Undefined:Undefined:Undefined
gen_server <0.934.1> terminated with reason: connection_down
2022-06-27 19:12:26.361 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.934.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:12:26.362 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:12:26.362 1 [error] <0.934.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.934.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

2022-06-27 19:12:26.362 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:12:26.362 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:12:26.366 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.933.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[[{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66, {<<"content-type">>,<<"application/grpc+proto">>}}],{56, {<<":authority">>,<<"18.228.115.118">>}}],{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "18.228.115.118",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5212>,socket\_mon => #Ref<0.155928093.3973578754.47929>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.934.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}

2022-06-27 19:12:26.367 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.934.1>,connection\_down}

2022-06-27 19:12:28.773 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/112tJtaGvWpaMwgPU6FH7XNjy56dJNeDXPVBnHoAypoS8eTF2yUu" informed us of our observed address "/ip4/80.77.186.186/tcp/9887"

2022-06-27 19:12:32.616 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from

12291671073248440251 on 56833

2022-06-27 19:12:36.365 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.137.92.200":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 19:12:36.523 1 [info] <0.957.1>@grpc\_client\_stream\_custom:init:

{131,9} init stream for RPC validators and type unary

2022-06-27 19:12:36.524 1 [info] <0.957.1>@grpc\_client\_stream\_custom:init:

{133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"3.137.92.200">>,http\_connection => <0.956.1>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}},name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[],[]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 19:12:36.639 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA

#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>

1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>

<<"2022-06-27 19:12:36 GMT">>,<<"txnb">> => 0}} from

12291671073248440251 on 35152

2022-06-27 19:12:36.641 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:

{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>

1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>

<<"2022-06-27 19:12:36 GMT">>,<<"txnb">> => 0}

2022-06-27 19:12:36.643 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:

{440,5} Gateway

#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv

ed=5101,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>

1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>

<<"2022-06-27 19:12:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 19:12:36.681 1 [error] <0.956.1>@http2\_client:handle\_settings:822

gen\_server <0.956.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:12:36.684 1 [error] <0.956.1>@http2\_client:handle\_settings:822

CRASH REPORT Process <0.956.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 19:12:36.684 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.957.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:12:36.684 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:12:36.685 1 [error] <0.957.1>@Undefined:Undefined:Undefined
gen_server <0.957.1> terminated with reason: connection_down
2022-06-27 19:12:36.685 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:12:36.685 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:12:36.686 1 [error] <0.957.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.957.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:12:36.688 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.956.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5218>,socket_mon =>
#Ref<0.155928093.3973316611.158803>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.957.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:12:36.689 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.957.1>,connection_down}
2022-06-27 19:12:42.758 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:12:46.688 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:12:46.925 1 [info] <0.985.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:12:46.926 1 [info] <0.985.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.984.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:12:47.159 1 [error] <0.984.1>@http2_client:handle_settings:822
gen_server <0.984.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```



2022-06-27 19:12:47.160 1 [error] <0.984.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.984.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:12:47.160 1 [error] <0.985.1>@Undefined:Undefined:Undefined  
gen\_server <0.985.1> terminated with reason: connection\_down

2022-06-27 19:12:47.161 1 [error] <0.985.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.985.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:12:47.161 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.985.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]]

2022-06-27 19:12:47.161 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 19:12:47.162 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 19:12:47.162 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 19:12:47.164 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.984.1>,{function\_clause,  
[{"http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

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16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5220>,socket_mon =>
#Ref<0.155928093.3974103041.62595>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.985.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:12:47.164 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.985.1>,connection_down}
2022-06-27 19:12:52.909 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:12:57.023 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 19:12:57.165 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:12:57.257 1 [info] <0.988.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:12:57.258 1 [info] <0.988.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.987.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 19:12:57.345 1 [error] <0.987.1>@http2_client:handle_settings:822
gen_server <0.987.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:12:57.346 1 [error] <0.987.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.987.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:12:57.346 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.988.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:12:57.346 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:12:57.347 1 [error] <0.988.1>@Undefined:Undefined:Undefined
gen_server <0.988.1> terminated with reason: connection_down
2022-06-27 19:12:57.347 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:12:57.347 1 [error] <0.988.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.988.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:12:57.347 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:12:57.348 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.987.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5221>,socket_mon =>
#Ref<0.155928093.3974103041.62657>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.988.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}]}
2022-06-27 19:12:57.349 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.988.1>,connection_down}
2022-06-27 19:13:03.059 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:13:06.646 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:13:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:13:06.646 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:13:06 GMT">>,<<"txnb">> => 0}
```

```
2022-06-27 19:13:06.647 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5105,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:13:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:13:07.349 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:13:07.429 1 [info] <0.991.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:13:07.430 1 [info] <0.991.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.990.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:13:07.509 1 [error] <0.990.1>@http2_client:handle_settings:822
gen_server <0.990.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:13:07.510 1 [error] <0.990.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.990.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:13:07.511 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.991.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:13:07.511 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:13:07.512 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:13:07.512 1 [error] <0.991.1>@Undefined:Undefined:Undefined
gen_server <0.991.1> terminated with reason: connection_down
2022-06-27 19:13:07.512 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:13:07.512 1 [error] <0.991.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.991.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:13:07.513 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.990.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5222>,socket_mon =>
#Ref<0.155928093.3974103041.62685>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.991.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:13:07.514 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.991.1>,connection_down}
2022-06-27 19:13:13.212 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:13:15.214 1 [info]
<0.1635.0>@libp2p_group_gossip_server:remove_worker:{682,59} Deleted 68
pids from seed
2022-06-27 19:13:15.215 1 [info]
<0.1635.0>@libp2p_group_gossip_server:remove_worker:{682,59} Deleted 151
pids from peerbook
2022-06-27 19:13:15.215 1 [info]
<0.1635.0>@libp2p_group_gossip_server:remove_worker:{682,59} Deleted 11 pids
from inbound
2022-06-27 19:13:17.515 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:13:17.793 1 [info] <0.1000.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:13:17.794 1 [info] <0.1000.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.997.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:13:18.061 1 [error] <0.997.1>@http2_client:handle_settings:822
gen_server <0.997.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:13:18.062 1 [error] <0.997.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.997.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:13:18.063 1 [error] <0.1000.1>@Undefined:Undefined:Undefined
gen_server <0.1000.1> terminated with reason: connection_down
2022-06-27 19:13:18.064 1 [error] <0.1000.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1000.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:13:18.064 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1000.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:13:18.065 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:13:18.065 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:13:18.066 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:13:18.070 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.997.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
```



```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"13.125.32.225">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}}], host => "13.125.32.225", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.5223>, socket_mon =>
#Ref<0.155928093.3974103041.62779>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.1000.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file,"http2_client.erl"}, {line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"}, {line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"}, {line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"}, {line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"}, {line,226}]]}]
2022-06-27 19:13:18.071 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1000.1>,connection_down}
2022-06-27 19:13:23.348 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:13:28.069 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:13:28.402 1 [info] <0.1011.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:13:28.405 1 [info] <0.1011.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.1010.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:13:28.730 1 [error] <0.1010.1>@http2_client:handle_settings:822
gen_server <0.1010.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:13:28.732 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1011.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:13:28.732 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:13:28.733 1 [error] <0.1010.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1010.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:13:28.733 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:13:28.733 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:13:28.734 1 [error] <0.1011.1>@Undefined:Undefined:Undefined
gen_server <0.1011.1> terminated with reason: connection_down
2022-06-27 19:13:28.735 1 [error] <0.1011.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1011.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:13:28.737 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1010.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5224>,socket_mon =>
#Ref<0.155928093.3973578754.48798>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1011.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:13:28.739 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1011.1>,connection_down}
2022-06-27 19:13:33.497 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.1025.1>, Ref:
#Ref<0.155928093.3974103041.63189>, Peer: "/p2p/
11W9kbKnqvfLpXAWN1SLtV8MYtLcFZXqVJn3Kx1eoAjipmXQH9S"
2022-06-27 19:13:33.499 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:13:36.645 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:13:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:13:36.646 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:13:36 GMT">>,<<"txnb">> => 0}
```

```
2022-06-27 19:13:36.647 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5109,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:13:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:13:38.735 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:13:38.817 1 [info] <0.1034.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:13:38.819 1 [info] <0.1034.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.1033.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:13:38.892 1 [error] <0.1033.1>@http2_client:handle_settings:822
gen_server <0.1033.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:13:38.892 1 [error] <0.1033.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1033.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:13:38.893 1 [error] <0.1034.1>@Undefined:Undefined:Undefined
gen_server <0.1034.1> terminated with reason: connection_down
2022-06-27 19:13:38.894 1 [error] <0.1034.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1034.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:13:38.896 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1034.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 19:13:38.897 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:13:38.899 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:13:38.901 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:13:38.905 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1033.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5225>,socket_mon =>
#Ref<0.155928093.3974103041.63524>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1034.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:13:38.907 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1034.1>,connection_down}
2022-06-27 19:13:43.653 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:13:48.904 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:13:49.063 1 [info] <0.1063.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:13:49.064 1 [info] <0.1063.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.1062.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:13:49.216 1 [error] <0.1062.1>@http2_client:handle_settings:822
gen_server <0.1062.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:13:49.216 1 [error] <0.1062.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1062.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:13:49.217 1 [error] <0.1063.1>@Undefined:Undefined:Undefined
gen_server <0.1063.1> terminated with reason: connection_down
2022-06-27 19:13:49.217 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1063.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[[file,"gen_server.erl"],{line,247}]],
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]},{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]},
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]},
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]]
2022-06-27 19:13:49.217 1 [error] <0.1063.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1063.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:13:49.218 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:13:49.218 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:13:49.218 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:13:49.219 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1062.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{55,
{<<":authority">>,<<"3.131.232.233">>}],{63,<<":path">>,<<"/helium.gateway/
validators">>}}]],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5227>,socket_mon =>
#Ref<0.155928093.3974103041.63766>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1063.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 19:13:49.220 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1063.1>,connection_down}
2022-06-27 19:13:53.796 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:13:59.221 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:13:59.447 1 [info] <0.1066.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:13:59.449 1 [info] <0.1066.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.1065.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:13:59.670 1 [error] <0.1065.1>@http2_client:handle_settings:822
gen_server <0.1065.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:13:59.670 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1066.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl",{line,418}}]},{grpc_client_custom,unary,6,
```



```
[{file,"grpc_client_custom.erl"},{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:13:59.670 1 [error] <0.1065.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1065.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:13:59.671 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:13:59.671 1 [error] <0.1066.1>@Undefined:Undefined:Undefined
gen_server <0.1066.1> terminated with reason: connection_down
2022-06-27 19:13:59.671 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:13:59.671 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:13:59.672 1 [error] <0.1066.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1066.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:13:59.673 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1065.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5228>,socket_mon =>
#Ref<0.155928093.3973316611.159323>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1066.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:13:59.674 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1066.1>,connection_down} 2022-06-27
19:14:03.935 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 19:14:05.775 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 4,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAE35BsFABscADiGYjhN1N+oBnmUFZSvVhCXMCXwnzXvZyONUY5iTrjY
StzhfcTiXA==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> => 45,<<"freq">>
=> 867.3,<<"jver">> => 1,<<"lsnr">> => -21.2,<<"mid">> => 0,<<"modu">> =>
<<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -109,<<"rssi">> =>
-129,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 106803010]}} from
12291671073248440251 on 35152
2022-06-27 19:14:06.652 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:14:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:14:06.653 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:14:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:14:06.655 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5113,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 19:14:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:14:09.674 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:14:09.950 1 [info] <0.1069.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:14:09.951 1 [info] <0.1069.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.1068.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:14:10.220 1 [error] <0.1068.1>@http2_client:handle_settings:822
gen_server <0.1068.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:14:10.222 1 [error] <0.1068.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1068.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:14:10.223 1 [error] <0.1069.1>@Undefined:Undefined:Undefined
gen_server <0.1069.1> terminated with reason: connection_down
2022-06-27 19:14:10.224 1 [error] <0.1069.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1069.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:14:10.224 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1069.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:14:10.225 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:14:10.226 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:14:10.226 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:14:10.227 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1068.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"18.228.158.83">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5229>,socket_mon =>
#Ref<0.155928093.3974103041.63916>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1069.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]]}
```

```
2022-06-27 19:14:10.228 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1069.1>,connection_down}
2022-06-27 19:14:14.082 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:14:20.228 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:14:20.318 1 [info] <0.1073.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:14:20.319 1 [info] <0.1073.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.1072.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:14:20.402 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1073.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:14:20.403 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:14:20.404 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 19:14:20.404 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:14:20.404 1 [error] <0.1072.1>@http2_client:handle_settings:822
gen_server <0.1072.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:14:20.405 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1072.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5230>,socket_mon =>
#Ref<0.155928093.3974103041.64053>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1073.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 19:14:20.406 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1073.1>,connection_down}
2022-06-27 19:14:20.406 1 [error] <0.1072.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1072.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:14:20.406 1 [error] <0.1073.1>@Undefined:Undefined:Undefined
gen_server <0.1073.1> terminated with reason: connection_down
2022-06-27 19:14:20.406 1 [error] <0.1073.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1073.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:14:24.245 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:14:30.407 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:14:30.644 1 [info] <0.1082.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:14:30.646 1 [info] <0.1082.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.1081.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:14:30.872 1 [error] <0.1081.1>@http2_client:handle_settings:822
gen_server <0.1081.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:14:30.873 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1082.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:14:30.873 1 [error] <0.1081.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1081.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:14:30.874 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:14:30.874 1 [error] <0.1082.1>@Undefined:Undefined:Undefined
gen_server <0.1082.1> terminated with reason: connection_down
2022-06-27 19:14:30.874 1 [error] <0.1082.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1082.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:14:30.874 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:14:30.874 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:14:30.876 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1081.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.89.130.114">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5231>,socket_mon =>
#Ref<0.155928093.3973578754.50144>,state => open,stream_count =>
```



```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1082.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:14:30.877 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1082.1>,connection_down}
2022-06-27 19:14:34.386 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:14:36.646 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:14:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:14:36.647 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:14:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:14:36.648 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5117,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:14:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:14:40.876 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:14:41.158 1 [info] <0.1116.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:14:41.160 1 [info] <0.1116.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.1115.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:14:41.431 1 [error] <0.1115.1>@http2_client:handle_settings:822
gen_server <0.1115.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:14:41.432 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1116.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:14:41.432 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:14:41.432 1 [error] <0.1115.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1115.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:14:41.433 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:14:41.433 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:14:41.433 1 [error] <0.1116.1>@Undefined:Undefined:Undefined
gen_server <0.1116.1> terminated with reason: connection_down
2022-06-27 19:14:41.433 1 [error] <0.1116.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.1116.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:14:41.434 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.1115.1>,{function\_clause,  
[http2\_client,handle\_settings,  
[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,  
{<<":authority">>,<<"18.228.115.118">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "18.228.115.118",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5237>,socket\_mon =>  
#Ref<0.155928093.3974103041.64519>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.1116.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 19:14:41.434 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.1116.1>,connection\_down}  
2022-06-27 19:14:44.539 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:14:46.509 1 [info] <0.1662.0>@blockchain\_worker:handle\_info:  
{673,53} block sync down: normal  
2022-06-27 19:14:47.646 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/  
11A85GRaXn8Yp7PQZawm83EeWxtn2tqEurCbUPQSnkRbgyjnWBk" informed us of  
our observed address "/ip4/80.77.186.186/tcp/21047"  
2022-06-27 19:14:51.438 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.251.77.229":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:14:51.678 1 [info] <0.1148.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 19:14:51.680 1 [info] <0.1148.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"54.251.77.229">>,http\_connection => <0.1145.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 19:14:51.909 1 [error] <0.1145.1>@http2\_client:handle\_settings:822 gen\_server <0.1145.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 19:14:51.911 1 [error] <0.1145.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.1145.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 19:14:51.911 1 [error] <0.1148.1>@Undefined:Undefined:Undefined gen\_server <0.1148.1> terminated with reason: connection\_down  
2022-06-27 19:14:51.911 1 [error] <0.1148.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.1148.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:14:51.911 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.1148.1>,{rcv,10000},infinity]}}, Stack: [{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3,

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[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:14:51.912 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:14:51.912 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:14:51.912 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:14:51.914 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1145.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5243>,socket_mon =>
#Ref<0.155928093.3974103041.64790>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1148.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}}
2022-06-27 19:14:51.915 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.1148.1>,connection_down}
2022-06-27 19:14:54.676 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:15:01.915 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:15:01.997 1 [info] <0.1153.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:15:02.000 1 [info] <0.1153.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.1152.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:15:02.124 1 [error] <0.1152.1>@http2_client:handle_settings:822
gen_server <0.1152.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:15:02.128 1 [error] <0.1152.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1152.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:15:02.129 1 [error] <0.1153.1>@Undefined:Undefined:Undefined
gen_server <0.1153.1> terminated with reason: connection_down
2022-06-27 19:15:02.129 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1153.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:15:02.129 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:15:02.130 1 [error] <0.1153.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1153.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:15:02.130 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:15:02.131 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:15:02.133 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1152.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"3.72.215.7">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5244>,socket_mon =>
#Ref<0.155928093.3973578754.50575>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1153.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:15:02.134 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1153.1>,connection_down}
2022-06-27 19:15:03.622 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.1155.1>, Ref:
#Ref<0.155928093.3974103041.64963>, Peer: "/p2p/
11W9kbKnqvfLpXAWN1SLtV8MYtLcFZXqVJn3Kx1eoAjipmXQH9S"
2022-06-27 19:15:04.832 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:15:06.652 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:15:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:15:06.652 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:15:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:15:06.653 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5121,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:15:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:15:12.134 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:15:12.215 1 [info] <0.1160.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:15:12.216 1 [info] <0.1160.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.1159.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```



miner\_poc\_grpc\_client\_handler

```
2022-06-27 19:15:12.290 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1160.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
```

2022-06-27 19:15:12.291 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 19:15:12.291 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

2022-06-27 19:15:12.292 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

2022-06-27 19:15:12.293 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1159.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5245>,socket_mon =>
```

```
#Ref<0.155928093.3974103041.65238>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1160.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 19:15:12.294 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1160.1>,connection_down}
2022-06-27 19:15:12.295 1 [error] <0.1159.1>@http2_client:handle_settings:822
gen_server <0.1159.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:15:12.296 1 [error] <0.1159.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1159.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:15:12.296 1 [error] <0.1160.1>@Undefined:Undefined:Undefined
gen_server <0.1160.1> terminated with reason: connection_down
2022-06-27 19:15:12.297 1 [error] <0.1160.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1160.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:15:14.975 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:15:22.294 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:15:22.526 1 [info] <0.1164.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:15:22.527 1 [info] <0.1164.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.1163.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:15:23.050 1 [error] <0.1163.1>@http2_client:handle_settings:822
gen_server <0.1163.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:15:23.051 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1164.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:15:23.051 1 [error] <0.1163.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1163.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:15:23.052 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:15:23.052 1 [error] <0.1164.1>@Undefined:Undefined:Undefined
gen_server <0.1164.1> terminated with reason: connection_down
2022-06-27 19:15:23.052 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:15:23.053 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

validator failed: {error,req\_failed}  
2022-06-27 19:15:23.053 1 [error] <0.1164.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.1164.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:15:23.054 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.1163.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"35.82.239.134">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}]}},host => "35.82.239.134",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5246>,socket\_mon =>  
#Ref<0.155928093.3974103041.65319>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.1164.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}}  
2022-06-27 19:15:23.055 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.1164.1>,connection\_down}  
2022-06-27 19:15:25.112 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:15:33.055 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.215.75.202":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:15:33.291 1 [info] <0.1172.1>@grpc\_client\_stream\_custom:init:

```
{131,9} init stream for RPC validators and type unary
2022-06-27 19:15:33.292 1 [info] <0.1172.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.1171.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:15:33.523 1 [error] <0.1171.1>@http2_client:handle_settings:822
gen_server <0.1171.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:15:33.524 1 [error] <0.1171.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1171.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:15:33.525 1 [error] <0.1172.1>@Undefined:Undefined:Undefined
gen_server <0.1172.1> terminated with reason: connection_down
2022-06-27 19:15:33.525 1 [error] <0.1172.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1172.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:15:33.525 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1172.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:15:33.525 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:15:33.526 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:15:33.526 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:15:33.527 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1171.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5247>,socket_mon =>
#Ref<0.155928093.3974103041.65421>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.1172.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}]}
2022-06-27 19:15:33.528 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1172.1>,connection_down}
2022-06-27 19:15:35.258 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 19:15:36.656 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:15:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:15:36.657 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:15:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:15:36.658 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5125,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:15:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:15:43.529 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:15:43.766 1 [info] <0.1186.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:15:43.769 1 [info] <0.1186.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.1185.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:15:43.994 1 [error] <0.1185.1>@http2_client:handle_settings:822
gen_server <0.1185.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:15:43.995 1 [error] <0.1185.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1185.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 19:15:43.995 1 [error] <0.1186.1>@Undefined:Undefined:Undefined
gen_server <0.1186.1> terminated with reason: connection_down
2022-06-27 19:15:43.995 1 [error] <0.1186.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1186.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:15:43.995 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1186.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:15:43.996 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:15:43.996 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:15:43.996 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:15:43.998 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1185.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
```



```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5248>,socket_mon =>
#Ref<0.155928093.3974103041.65682>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1186.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:15:43.998 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1186.1>,connection_down}
2022-06-27 19:15:45.399 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:15:53.999 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:15:54.335 1 [info] <0.1205.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:15:54.336 1 [info] <0.1205.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.1204.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:15:54.660 1 [error] <0.1204.1>@http2_client:handle_settings:822
gen_server <0.1204.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:15:54.661 1 [error] <0.1204.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.1204.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:15:54.662 1 [error] <0.1205.1>@Undefined:Undefined:Undefined
gen_server <0.1205.1> terminated with reason: connection_down
2022-06-27 19:15:54.662 1 [error] <0.1205.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1205.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:15:54.662 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1205.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:15:54.663 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:15:54.663 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:15:54.664 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:15:54.666 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1204.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"13.211.55.217">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5249>,socket_mon =>
#Ref<0.155928093.3974103041.65921>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.1205.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 19:15:54.667 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1205.1>,connection_down}
2022-06-27 19:15:55.538 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:16:04.667 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:16:04.747 1 [info] <0.1217.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:16:04.748 1 [info] <0.1217.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.1216.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:16:04.825 1 [error] <0.1216.1>@http2_client:handle_settings:822
gen_server <0.1216.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:16:04.825 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1217.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:16:04.826 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:16:04.826 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:16:04.826 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:16:04.827 1 [error] <0.1216.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1216.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:16:04.827 1 [error] <0.1217.1>@Undefined:Undefined:Undefined
gen_server <0.1217.1> terminated with reason: connection_down
2022-06-27 19:16:04.828 1 [error] <0.1217.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1217.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:16:04.828 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1216.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {53,
{<<":authority">>,<<"3.70.55.231">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5250>,socket_mon =>
#Ref<0.155928093.3974103041.66217>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.1217.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:16:04.829 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1217.1>,connection_down}
2022-06-27 19:16:05.679 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:16:06.658 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:16:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:16:06.659 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:16:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:16:06.662 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=5129,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:16:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:16:14.829 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:16:15.160 1 [info] <0.1220.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:16:15.162 1 [info] <0.1220.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.1219.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:16:15.482 1 [error] <0.1219.1>@http2_client:handle_settings:822
gen_server <0.1219.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:16:15.483 1 [error] <0.1219.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1219.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:16:15.485 1 [error] <0.1220.1>@Undefined:Undefined:Undefined
gen_server <0.1220.1> terminated with reason: connection_down
2022-06-27 19:16:15.485 1 [error] <0.1220.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1220.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:16:15.486 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1220.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:16:15.486 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:16:15.487 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:16:15.487 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:16:15.489 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1219.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5251>,socket_mon =>
#Ref<0.155928093.3973578754.52263>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1220.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 19:16:15.490 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1220.1>,connection_down}
2022-06-27 19:16:15.825 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:16:17.207 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 19:16:25.489 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:16:25.725 1 [info] <0.1223.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:16:25.727 1 [info] <0.1223.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.1222.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:16:25.955 1 [error] <0.1222.1>@http2_client:handle_settings:822
gen_server <0.1222.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:16:25.956 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1223.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```



```
{{file,"miner_poc_grpc_client_statem.erl"},{line,221}},
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:16:25.956 1 [error] <0.1222.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1222.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:16:25.956 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:16:25.957 1 [error] <0.1223.1>@Undefined:Undefined:Undefined
gen_server <0.1223.1> terminated with reason: connection_down
2022-06-27 19:16:25.957 1 [error] <0.1223.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1223.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:16:25.957 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:16:25.958 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:16:25.961 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1222.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5252>,socket_mon =>
#Ref<0.155928093.3973578754.52453>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.1223.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 19:16:25.962 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1223.1>,connection_down}
2022-06-27 19:16:25.973 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:16:35.960 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:16:36.118 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:16:36.242 1 [info] <0.1232.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:16:36.244 1 [info] <0.1232.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.1231.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:16:36.514 1 [error] <0.1231.1>@http2_client:handle_settings:822
gen_server <0.1231.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:16:36.516 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1232.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:16:36.516 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:16:36.518 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:16:36.519 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:16:36.519 1 [error] <0.1231.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1231.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:16:36.520 1 [error] <0.1232.1>@Undefined:Undefined:Undefined
gen_server <0.1232.1> terminated with reason: connection_down
2022-06-27 19:16:36.520 1 [error] <0.1232.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1232.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:16:36.522 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1231.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
```

```
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5253>,socket_mon =>
#Ref<0.155928093.3973316611.160530>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1232.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:16:36.523 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1232.1>,connection_down}
2022-06-27 19:16:36.655 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:16:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:16:36.656 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:16:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:16:36.658 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5133,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:16:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:16:46.252 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:16:46.521 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:16:46.597 1 [info] <0.1662.0>@blockchain_worker:target_sync:
```

{836,5} targeted block sync starting with Pid: <0.1251.1>, Ref: #Ref<0.155928093.3973578754.52914>, Peer: "/p2p/11W9kbKnqvfLpXAWN1SLtV8MYtLcFZXqVJn3Kx1eoAjipmXQH9S"  
2022-06-27 19:16:46.753 1 [info] <0.1253.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 19:16:46.754 1 [info] <0.1253.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"44.229.159.157">>,http\_connection => <0.1250.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 19:16:46.980 1 [error] <0.1250.1>@http2\_client:handle\_settings:822 gen\_server <0.1250.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 19:16:46.981 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.1253.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 19:16:46.981 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}  
2022-06-27 19:16:46.981 1 [error] <0.1250.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.1250.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

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<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:16:46.982 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:16:46.982 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:16:46.982 1 [error] <0.1253.1>@Undefined:Undefined:Undefined
gen_server <0.1253.1> terminated with reason: connection_down
2022-06-27 19:16:46.982 1 [error] <0.1253.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1253.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:16:46.983 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1250.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5254>,socket_mon =>
#Ref<0.155928093.3973316611.160556>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1253.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:16:46.984 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

in setup state: Type: info, Msg: {'EXIT',<0.1253.1>,connection\_down}  
2022-06-27 19:16:56.396 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:16:56.985 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "54.251.77.229":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:16:57.056 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,ehostunreach}},  
[{"miner\_poc\_grpc\_client\_statem",send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,719}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]]  
2022-06-27 19:16:57.056 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 19:16:57.058 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.1264.1>,ehostunreach}  
2022-06-27 19:16:57.058 1 [error] <0.1264.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.1264.1> with 0 neighbours exited with reason:  
ehostunreach in gen\_server:init\_it/6 line 407  
2022-06-27 19:17:02.300 1 [notice]  
<0.1272.1>@libp2p\_multistream\_client:negotiate\_handler:{14,13} Client handshake  
failed for "gossip/1.0.2": closed  
2022-06-27 19:17:02.301 1 [warning]  
<0.1644.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "  
ip4/18.185.133.76/tcp/443": closed  
2022-06-27 19:17:02.644 1 [notice]  
<0.1270.1>@libp2p\_multistream\_client:negotiate\_handler:{14,13} Client handshake  
failed for "gossip/1.0.2": closed  
2022-06-27 19:17:02.645 1 [warning]  
<0.1645.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "  
ip4/3.15.87.218/tcp/443": closed  
2022-06-27 19:17:06.532 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:17:06.662 1 [info]

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<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:17:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:17:06.663 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:17:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:17:06.665 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5137,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:17:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:17:07.058 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:17:07.132 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,ehostunreach}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}}]
2022-06-27 19:17:07.132 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:17:07.133 1 [error] <0.1276.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1276.1> with 0 neighbours exited with reason:
ehostunreach in gen_server:init_it/6 line 407
2022-06-27 19:17:07.133 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1276.1>,ehostunreach}
2022-06-27 19:17:08.752 1 [notice]
<0.899.1>@libp2p_yamux_session:handle_info:{189,5} Session liveness failure
2022-06-27 19:17:14.054 1 [warning]
<0.1638.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
11t5fSr7B2mitX8VBYe9v2kUzt5VLfb46QD5Xbc2w4xgHB3igqE": [{"/
```



ip4/170.187.186.212/tcp/44158",ehostunreach]]  
2022-06-27 19:17:16.109 1 [notice]  
<0.1268.1>@libp2p\_multistream\_client:negotiate\_handler:{14,13} Client handshake failed for "gossip/1.0.2": closed  
2022-06-27 19:17:16.110 1 [warning]  
<0.1639.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/11yJRnYb9fA5cjTW7U6LYJpgKZzmRX8JYzMWDHbwYd21sjB7u72": closed  
2022-06-27 19:17:16.689 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:17:16.844 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"rxpk">> => [#<<"chan">> => 3,<<"codr">> => <<"4/5">>,<<"data">> => <<"QDDaAAEaCgaOALAOAClq/D8n/1yeuN8oyXCVkVG+TA7u0p9iQ3QBXqkUD3GeIUvs6Jzh0Q==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> => 2064,<<"freq">> => 867.1,<<"jver">> => 1,<<"lsnr">> => -14.5,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -112,<<"rssid">> => -125,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 297871825]}} from 12291671073248440251 on 35152  
2022-06-27 19:17:17.135 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.228.115.118":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:17:17.212 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,ehostunreach}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}}]  
2022-06-27 19:17:17.212 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:17:17.214 1 [error] <0.1281.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.1281.1> with 0 neighbours exited with reason:  
ehostunreach in gen\_server:init\_it/6 line 407  
2022-06-27 19:17:17.214 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1281.1>,ehostunreach}  
2022-06-27 19:17:19.309 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"rxpk">> => [#<<"chan">> => 3,<<"codr">> => <<"4/5">>,<<"data">> =>  
<<"QDDaAAGyOQh4ADayAAaJhjtJY8h6KCRerHX8+GBfhajZaDIzt76ljdndGCc7Im  
zm+IUFw==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> => 175,<<"freq">>  
>=> 867.1,<<"jver">> => 1,<<"lsnr">> => -6.8,<<"mid">> => 0,<<"modu">> =>  
<<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -111,<<"rssi">> => -117,<<"size">>  
>=> 52,<<"stat">> => 1,<<"tmst">> => 300345213]]} from  
12291671073248440251 on 35152  
2022-06-27 19:17:21.374 1 [notice]

<0.32094.0>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 19:17:21.515 1 [notice]

<0.1094.1>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 19:17:21.672 1 [info]

<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for  
inbound <0.1238.1>  
2022-06-27 19:17:22.487 1 [warning]

<0.1644.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/54.251.69.171/tcp/2154": ehostunreach  
2022-06-27 19:17:22.717 1 [warning]

<0.1645.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/35.160.104.104/tcp/443": ehostunreach  
2022-06-27 19:17:26.645 1 [warning]

<0.1646.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/3.16.101.139/tcp/2154": ehostunreach  
2022-06-27 19:17:26.786 1 [warning]

<0.1642.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/  
112sjRuzCLjCM8oFzXr7h59fBd6Zeh27pjz3uz7F4ddPGqWBS4Zn": [{"/  
ip4/62.168.170.150/tcp/44158",ehostunreach}]  
2022-06-27 19:17:26.832 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:17:27.215 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.104.32.11":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:17:27.284 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,ehostunreach}},  
[{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,719}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},

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{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:17:27.285 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:17:27.287 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1293.1>,ehostunreach}
2022-06-27 19:17:27.287 1 [error] <0.1293.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1293.1> with 0 neighbours exited with reason:
ehostunreach in gen_server:init_it/6 line 407
2022-06-27 19:17:27.578 1 [notice]
<0.937.1>@libp2p_yamux_session:handle_info:{189,5} Session liveness failure
2022-06-27 19:17:28.268 1 [notice]
<0.1122.1>@libp2p_yamux_session:handle_info:{189,5} Session liveness failure
2022-06-27 19:17:28.364 1 [notice]
<0.1266.1>@libp2p_multistream_client:negotiate_handler:{14,13} Client handshake
failed for "gossip/1.0.2": closed
2022-06-27 19:17:28.365 1 [warning]
<0.1640.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
11A85GRaXn8Yp7PQZawm83EeWxtn2tqEurCbUPQSnkRbgyjnWBk": closed
2022-06-27 19:17:29.564 1 [info] <0.1657.0>@libp2p_relay_server:handle_info:
{172,5} Relay session with address "/p2p/
112AWGsXhaneQqj3UhtPqgFYzM7EjHmMPF4BaPHVqt2vTwpKH5n5/p2p-circuit/
p2p/11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv" closed
with reason normal
2022-06-27 19:17:32.112 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:17:33.016 1 [warning]
<0.1641.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
112tJtaGvWpaMwgPU6FH7XNjy56dJNeDXPVBnHoAypoS8eTF2yUu": [{"/
ip4/72.132.224.172/tcp/44158",ehostunreach}]
2022-06-27 19:17:34.652 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:17:36.657 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
2,<<"rxnb">> => 2,<<"rxok">> => 2,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:17:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:17:36.657 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
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2,<<"rxnb">> => 2,<<"rxok">> => 2,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 19:17:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 19:17:36.659 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=5140,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 2,<<"rxnb">> => 2,<<"rxok">> => 2,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 19:17:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 19:17:36.981 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:17:37.179 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:17:37.288 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.38.70.101":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:17:37.367 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,ehostunreach}},  
[{"miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,719}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file,"proc\_lib.erl"},{line,226}]]]  
2022-06-27 19:17:37.368 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 19:17:37.369 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.1300.1>,ehostunreach}  
2022-06-27 19:17:37.369 1 [error] <0.1300.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.1300.1> with 0 neighbours exited with reason:  
ehostunreach in gen\_server:init\_it/6 line 407  
2022-06-27 19:17:39.702 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:17:42.224 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}

2022-06-27 19:17:42.562 1 [warning]  
<0.1644.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/18.141.125.188/tcp/443": ehostunreach  
2022-06-27 19:17:42.796 1 [warning]  
<0.1645.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/3.66.43.167/tcp/443": ehostunreach  
2022-06-27 19:17:44.743 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:17:46.733 1 [warning]  
<0.1646.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/54.233.127.36/tcp/443": ehostunreach  
2022-06-27 19:17:47.118 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:17:47.283 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:17:47.371 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "54.70.239.5":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:17:47.441 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,ehostunreach}},  
[{"miner\_poc\_grpc\_client\_statem",send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{"line",719}]}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{"line",467}]}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{"line",221}]}],  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{"line",1203}]}],  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{"line",226}]}]  
2022-06-27 19:17:47.442 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 19:17:47.442 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.1304.1>,ehostunreach}  
2022-06-27 19:17:47.443 1 [error] <0.1304.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.1304.1> with 0 neighbours exited with reason:  
ehostunreach in gen\_server:init\_it/6 line 407  
2022-06-27 19:17:49.812 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay

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{error,retry}
2022-06-27 19:17:52.345 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:17:54.872 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:17:56.512 1 [warning]
<0.8.1>@libp2p_yamux_session:message_receive:{535,29} Failed to read data for
27: timeout
2022-06-27 19:17:56.513 1 [warning]
<0.8.1>@libp2p_yamux_session:goaway_cast:{460,5} Session going away because
of code: 2
2022-06-27 19:17:56.519 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 19:17:57.272 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:17:57.393 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:17:57.444 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:17:57.675 1 [info] <0.1307.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:17:57.676 1 [info] <0.1307.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.1306.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:17:57.903 1 [error] <0.1306.1>@http2_client:handle_settings:822
gen_server <0.1306.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:17:57.907 1 [error] <0.1306.1>@http2_client:handle_settings:822
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CRASH REPORT Process <0.1306.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:17:57.910 1 [error] <0.1307.1>@Undefined:Undefined:Undefined
gen_server <0.1307.1> terminated with reason: connection_down
2022-06-27 19:17:57.910 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1307.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:17:57.911 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:17:57.912 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:17:57.912 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:17:57.910 1 [error] <0.1307.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1307.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:17:57.913 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1306.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"52.89.130.114">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5292>,socket_mon =>
#Ref<0.155928093.3973316611.161244>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1307.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 19:17:57.914 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1307.1>,connection_down}
2022-06-27 19:17:59.914 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:02.448 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:04.838 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11uWvnw7c2KAARckYNEZRwoxeirNZUL2JLDV6SP7tqWw4H1dp4J" informed us of
our observed address "/ip4/80.77.186.186/tcp/32701"
2022-06-27 19:18:04.965 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:06.660 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:18:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:18:06.660 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
```



```
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:18:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:18:06.661 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5144,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:18:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:18:07.184 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11245S2bqZ5n5ZhoCJMMD57kA2ebhxBPcBwNAXeHsxmvd7xEnwVX" informed us
of our observed address "/ip4/80.77.186.186/tcp/35729"
2022-06-27 19:18:07.429 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:18:07.497 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:07.586 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11kjXKHKLdXJtj4ksexw4yGCn2HQs48ev35FYQaZrDDzk84xmgW" informed us of
our observed address "/ip4/80.77.186.186/tcp/47588"
2022-06-27 19:18:07.915 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:18:08.005 1 [info] <0.1358.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:18:08.006 1 [info] <0.1358.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.1357.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:18:08.086 1 [error] <0.1357.1>@http2_client:handle_settings:822
gen_server <0.1357.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 19:18:08.087 1 [error] <0.1357.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.1357.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 19:18:08.088 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.1358.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]]

2022-06-27 19:18:08.088 1 [error] <0.1358.1>@Undefined:Undefined:Undefined  
gen\_server <0.1358.1> terminated with reason: connection\_down

2022-06-27 19:18:08.088 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 19:18:08.088 1 [error] <0.1358.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.1358.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:18:08.089 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 19:18:08.089 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 19:18:08.091 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.1357.1>,{function\_clause,  
[{"http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5296>,socket_mon =>
#Ref<0.155928093.3973316611.161413>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1358.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:18:08.092 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1358.1>,connection_down}
2022-06-27 19:18:10.030 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:12.566 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:15.096 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:17.566 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:18:17.621 1 [warning] <0.1657.0>@libp2p_relay_server:handle_info:
{168,13} could not initiate relay {error,retry}
2022-06-27 19:18:18.091 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:18:18.257 1 [info] <0.1361.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 19:18:18.259 1 [info] <0.1361.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.1360.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:18:18.416 1 [error] <0.1360.1>@http2_client:handle_settings:822
gen_server <0.1360.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:18:18.417 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1361.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:18:18.417 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:18:18.417 1 [error] <0.1360.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1360.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:18:18.417 1 [error] <0.1361.1>@Undefined:Undefined:Undefined
gen_server <0.1361.1> terminated with reason: connection_down
2022-06-27 19:18:18.418 1 [error] <0.1361.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.1361.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:18:18.418 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 19:18:18.418 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 19:18:18.419 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.1360.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}},host => "3.137.92.200",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5297>,socket\_mon =>  
#Ref<0.155928093.3973316611.161557>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.1361.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}]}]}  
2022-06-27 19:18:18.419 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.1361.1>,connection\_down}  
2022-06-27 19:18:20.142 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:18:22.660 1 [warning]

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<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:25.181 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:27.700 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:27.711 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:18:28.421 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:18:28.588 1 [info] <0.1364.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:18:28.589 1 [info] <0.1364.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.1363.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:18:28.746 1 [error] <0.1363.1>@http2_client:handle_settings:822
gen_server <0.1363.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:18:28.746 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1364.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:18:28.746 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:18:28.747 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:18:28.747 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:18:28.747 1 [error] <0.1363.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1363.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:18:28.748 1 [error] <0.1364.1>@Undefined:Undefined:Undefined
gen_server <0.1364.1> terminated with reason: connection_down
2022-06-27 19:18:28.748 1 [error] <0.1364.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1364.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:18:28.748 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1363.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5298>,socket_mon =>
#Ref<0.155928093.3973316611.161741>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1364.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 19:18:28.749 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1364.1>,connection_down}
2022-06-27 19:18:30.230 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:32.753 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:35.297 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:36.664 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:18:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:18:36.665 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:18:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:18:36.667 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5148,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:18:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:18:37.845 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:37.858 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```



```
2022-06-27 19:18:38.749 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:18:39.028 1 [info] <0.1367.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:18:39.029 1 [info] <0.1367.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.1366.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:18:39.300 1 [error] <0.1366.1>@http2_client:handle_settings:822
gen_server <0.1366.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:18:39.302 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1367.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:18:39.302 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:18:39.303 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

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2022-06-27 19:18:39.303 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:18:39.303 1 [error] <0.1366.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1366.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:18:39.303 1 [error] <0.1367.1>@Undefined:Undefined:Undefined
gen_server <0.1367.1> terminated with reason: connection_down
2022-06-27 19:18:39.303 1 [error] <0.1367.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1367.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:18:39.304 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1366.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5299>,socket_mon =>
#Ref<0.155928093.3973316611.161921>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1367.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:18:39.304 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1367.1>,connection\_down}  
2022-06-27 19:18:40.367 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}  
2022-06-27 19:18:42.888 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}  
2022-06-27 19:18:45.403 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}  
2022-06-27 19:18:47.925 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}  
2022-06-27 19:18:48.015 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:18:49.306 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.209.94.225":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:18:49.573 1 [info] <0.1370.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 19:18:49.576 1 [info] <0.1370.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"13.209.94.225">>,http\_connection => <0.1369.1>,scheme => <<"http">>,encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 19:18:49.839 1 [error] <0.1369.1>@http2\_client:handle\_settings:822 gen\_server <0.1369.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 19:18:49.841 1 [error] <0.1369.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.1369.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

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4096,initial_window_size => ...,...,...) line 822
2022-06-27 19:18:49.843 1 [error] <0.1370.1>@Undefined:Undefined:Undefined
gen_server <0.1370.1> terminated with reason: connection_down
2022-06-27 19:18:49.843 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1370.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:18:49.844 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:18:49.844 1 [error] <0.1370.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1370.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:18:49.844 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:18:49.844 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:18:49.845 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1369.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.209.94.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5300>,socket_mon =>
#Ref<0.155928093.3973316611.162121>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1370.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 19:18:49.846 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1370.1>,connection_down}
2022-06-27 19:18:50.451 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:52.993 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:55.537 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:58.068 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:18:58.165 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:18:58.440 1 [warning]
<0.1640.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
112jGdzG5Gn6WvTPHJgNZnjJoXsV2ruaViQDSrJisSjKEc5QhuwQ": [{"/
ip4/77.120.38.48/tcp/44159",timeout]}
2022-06-27 19:18:59.847 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:18:59.928 1 [info] <0.1374.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 19:18:59.929 1 [info] <0.1374.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.1373.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:19:00.005 1 [error] <0.1373.1>@http2_client:handle_settings:822
gen_server <0.1373.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:19:00.006 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1374.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:19:00.006 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:19:00.007 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:19:00.007 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:19:00.007 1 [error] <0.1373.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1373.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:19:00.009 1 [error] <0.1374.1>@Undefined:Undefined:Undefined
gen_server <0.1374.1> terminated with reason: connection_down
2022-06-27 19:19:00.009 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1373.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5306>,socket_mon =>
#Ref<0.155928093.3973316611.162272>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1374.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:19:00.010 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1374.1>,connection_down}
2022-06-27 19:19:00.010 1 [error] <0.1374.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1374.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:19:00.594 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:19:03.115 1 [warning]
```

<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:19:05.678 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:19:06.672 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 19:19:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 19:19:06.673 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 19:19:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 19:19:06.675 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=5152,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 19:19:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 19:19:08.212 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:19:08.306 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:19:10.010 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.215.29.4":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:19:10.241 1 [info] <0.1382.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 19:19:10.243 1 [info] <0.1382.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"13.215.29.4">>,http\_connection => <0.1381.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 19:19:10.475 1 [error] <0.1381.1>@http2\_client:handle\_settings:822



```
gen_server <0.1381.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:19:10.475 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1382.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:19:10.475 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:19:10.477 1 [error] <0.1381.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1381.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:19:10.477 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:19:10.478 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:19:10.478 1 [error] <0.1382.1>@Undefined:Undefined:Undefined
gen_server <0.1382.1> terminated with reason: connection_down
2022-06-27 19:19:10.479 1 [error] <0.1382.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1382.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:19:10.483 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1381.1>,{function_clause,
```

```
{http2_client,handle_settings,
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5307>,socket_mon =>
#Ref<0.155928093.3973316611.162421>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1382.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:19:10.484 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1382.1>,connection_down}
2022-06-27 19:19:10.739 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:19:13.257 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:19:15.780 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:19:18.311 1 [warning] <0.1657.0>@libp2p_relay_server:handle_info:
{168,13} could not initiate relay {error,retry}
2022-06-27 19:19:18.446 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:19:20.480 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:19:20.646 1 [info] <0.1395.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:19:20.648 1 [info] <0.1395.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2_client,host => <<"3.137.92.200">>,http_connection => <0.1394.1>,scheme => <<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input => gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway_resp_v1_pb,output_stream => false,package => [],queue => {[],[]},response_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod: miner_poc_grpc_client_handler
2022-06-27 19:19:20.809 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1395.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:19:20.809 1 [error] <0.1394.1>@http2_client:handle_settings:822
gen_server <0.1394.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:19:20.809 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New Connection, send unary result: {error,#{error_type => client,status_message => <<"stream create failed">>}}
2022-06-27 19:19:20.810 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc client error response
2022-06-27 19:19:20.810 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:19:20.813 1 [error] <0.1394.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1394.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:19:20.814 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1394.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5308>,socket_mon =>
#Ref<0.155928093.3973316611.162590>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1395.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 19:19:20.815 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1395.1>,connection_down}
2022-06-27 19:19:20.816 1 [error] <0.1395.1>@Undefined:Undefined:Undefined
gen_server <0.1395.1> terminated with reason: connection_down
2022-06-27 19:19:20.817 1 [error] <0.1395.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1395.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:19:20.877 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:19:23.414 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:19:25.938 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:19:28.459 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:19:28.582 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:19:30.813 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:19:30.903 1 [info] <0.1399.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:19:30.905 1 [info] <0.1399.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.1398.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:19:30.969 1 [info] <0.1657.0>@libp2p_relay_server:init_relay:
{242,13} initiating relay with peer "/p2p/
112qt3y9cgwhxemSpjac1cEwPnGvwGnauupTozzQs3ynDh43hptT"
2022-06-27 19:19:30.988 1 [error] <0.1398.1>@http2_client:handle_settings:822
gen_server <0.1398.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:19:30.989 1 [error] <0.1398.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1398.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:19:30.990 1 [error] <0.1399.1>@Undefined:Undefined:Undefined
gen_server <0.1399.1> terminated with reason: connection_down
2022-06-27 19:19:30.990 1 [error] <0.1399.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1399.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:19:30.990 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1399.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:19:30.991 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:19:30.991 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:19:30.991 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:19:30.992 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1398.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5309>,socket_mon =>
#Ref<0.155928093.3973316611.162732>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1399.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}
2022-06-27 19:19:30.993 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1399.1>,connection_down}
2022-06-27 19:19:32.363 1 [info] <0.1657.0>@libp2p_relay_server:handle_info:
{162,13} relay started successfully with "/p2p/
112qt3y9cgwhxemSpjac1cEwPnGvwGnauupTozzQs3ynDh43hptT"
2022-06-27 19:19:32.740 1 [info] <0.1657.0>@libp2p_relay_server:handle_call:
{111,5} inserting new listener blockchain_swarm, "/p2p/
112qt3y9cgwhxemSpjac1cEwPnGvwGnauupTozzQs3ynDh43hptT/p2p-circuit/p2p/
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv", <0.1410.1>
2022-06-27 19:19:32.887 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112qt3y9cgwhxemSpjac1cEwPnGvwGnauupTozzQs3ynDh43hptT" informed us of
our observed address "/ip4/80.77.186.186/tcp/53485"
2022-06-27 19:19:36.667 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:19:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:19:36.667 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:19:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:19:36.669 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5156,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:19:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:19:38.725 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:19:40.994 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:19:42.262 1 [info] <0.1418.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:19:42.263 1 [info] <0.1418.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.1417.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:19:42.500 1 [error] <0.1417.1>@http2_client:handle_settings:822
gen_server <0.1417.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:19:42.501 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1418.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```



2022-06-27 19:19:42.502 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 19:19:42.503 1 [error] <0.1417.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.1417.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:19:42.503 1 [error] <0.1418.1>@Undefined:Undefined:Undefined gen\_server <0.1418.1> terminated with reason: connection\_down

2022-06-27 19:19:42.504 1 [error] <0.1418.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.1418.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:19:42.505 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:19:42.505 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:19:42.508 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1417.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{56, {<<":authority">>,<<"52.220.227.216">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "52.220.227.216",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5315>,socket\_mon => #Ref<0.155928093.3973316611.162895>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.1418.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport =>

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:19:42.509 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1418.1>,connection_down}
2022-06-27 19:19:48.876 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:19:52.508 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:19:52.733 1 [info] <0.1421.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:19:52.734 1 [info] <0.1421.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.1420.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:19:52.957 1 [error] <0.1420.1>@http2_client:handle_settings:822
gen_server <0.1420.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:19:52.958 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1421.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:19:52.958 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:19:52.958 1 [error] <0.1420.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1420.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:19:52.958 1 [error] <0.1421.1>@Undefined:Undefined:Undefined
gen_server <0.1421.1> terminated with reason: connection_down
2022-06-27 19:19:52.959 1 [error] <0.1421.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1421.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:19:52.959 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:19:52.959 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:19:52.961 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1420.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5316>,socket_mon =>
```

```
#Ref<0.155928093.3973316611.163027>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1421.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 19:19:52.962 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1421.1>,connection_down}
2022-06-27 19:19:59.022 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:20:02.962 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:20:03.238 1 [info] <0.1424.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:20:03.239 1 [info] <0.1424.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.1423.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:20:03.509 1 [error] <0.1423.1>@http2_client:handle_settings:822
gen_server <0.1423.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:20:03.510 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1424.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 19:20:03.510 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:20:03.511 1 [error] <0.1423.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1423.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:20:03.511 1 [error] <0.1424.1>@Undefined:Undefined:Undefined
gen_server <0.1424.1> terminated with reason: connection_down
2022-06-27 19:20:03.512 1 [error] <0.1424.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1424.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:20:03.512 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:20:03.512 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:20:03.515 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1423.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{56,
{<<":authority">>,<<"18.228.115.118">>}}],{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5317>,socket_mon =>
#Ref<0.155928093.3973316611.163151>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1424.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:20:03.515 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1424.1>,connection_down}
2022-06-27 19:20:06.675 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:20:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:20:06.676 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:20:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:20:06.679 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5160,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:20:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:20:09.170 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:20:10.445 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112Gy7ekShS3s7CQknKuGMbAbGUMkhtVx61bC4mXeZ4T9b8vybXc" informed us
of our observed address "/ip4/80.77.186.186/tcp/21128"
2022-06-27 19:20:13.514 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:20:13.784 1 [info] <0.1446.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:20:13.785 1 [info] <0.1446.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.1445.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:20:14.053 1 [error] <0.1445.1>@http2_client:handle_settings:822
gen_server <0.1445.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:20:14.054 1 [error] <0.1445.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1445.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:20:14.054 1 [error] <0.1446.1>@Undefined:Undefined:Undefined
gen_server <0.1446.1> terminated with reason: connection_down
2022-06-27 19:20:14.054 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1446.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 19:20:14.054 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:20:14.055 1 [error] <0.1446.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1446.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:20:14.056 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:20:14.056 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:20:14.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1445.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5323>,socket_mon =>
#Ref<0.155928093.3973316611.163295>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1446.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:20:14.058 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```



```
in setup state: Type: info, Msg: {'EXIT',<0.1446.1>,connection_down}
2022-06-27 19:20:19.312 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:20:24.059 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:20:24.336 1 [info] <0.1461.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:20:24.337 1 [info] <0.1461.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.1460.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:20:24.610 1 [error] <0.1460.1>@http2_client:handle_settings:822
gen_server <0.1460.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:20:24.612 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1461.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:20:24.612 1 [error] <0.1460.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1460.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:20:24.612 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:20:24.613 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:20:24.613 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:20:24.613 1 [error] <0.1461.1>@Undefined:Undefined:Undefined
gen_server <0.1461.1> terminated with reason: connection_down
2022-06-27 19:20:24.614 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1460.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5324>,socket_mon =>
#Ref<0.155928093.3973316611.163483>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1461.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

```
2022-06-27 19:20:24.614 1 [error] <0.1461.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1461.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:20:24.614 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1461.1>,connection_down}
2022-06-27 19:20:29.468 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:20:34.616 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:20:34.783 1 [info] <0.1464.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:20:34.785 1 [info] <0.1464.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.1463.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:20:34.945 1 [error] <0.1463.1>@http2_client:handle_settings:822
gen_server <0.1463.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:20:34.946 1 [error] <0.1463.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1463.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:20:34.946 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1464.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]}],
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 19:20:34.947 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:20:34.947 1 [error] <0.1464.1>@Undefined:Undefined:Undefined
gen_server <0.1464.1> terminated with reason: connection_down
2022-06-27 19:20:34.948 1 [error] <0.1464.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1464.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:20:34.948 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:20:34.948 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:20:34.952 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1463.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5325>,socket_mon =>
#Ref<0.155928093.3973316611.163631>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1464.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 19:20:34.953 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1464.1>,connection_down}
2022-06-27 19:20:36.671 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:20:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:20:36.672 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:20:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:20:36.673 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5164,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:20:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:20:39.618 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:20:44.951 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:20:45.042 1 [info] <0.1467.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:20:45.043 1 [info] <0.1467.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.1466.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:20:45.125 1 [error] <0.1466.1>@http2_client:handle_settings:822
gen_server <0.1466.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:20:45.126 1 [error] <0.1466.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1466.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:20:45.127 1 [error] <0.1467.1>@Undefined:Undefined:Undefined
gen_server <0.1467.1> terminated with reason: connection_down
2022-06-27 19:20:45.127 1 [error] <0.1467.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1467.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:20:45.128 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1467.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:20:45.128 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:20:45.128 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:20:45.129 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

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validator failed: {error,req_failed}
2022-06-27 19:20:45.130 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1466.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5326>,socket_mon =>
#Ref<0.155928093.3974103041.69745>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1467.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:20:45.130 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1467.1>,connection_down}
2022-06-27 19:20:49.779 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:20:55.131 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:20:55.212 1 [info] <0.1470.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:20:55.212 1 [info] <0.1470.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.1469.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:20:55.290 1 [error] <0.1469.1>@http2_client:handle_settings:822
gen_server <0.1469.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:20:55.290 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1470.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:20:55.290 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:20:55.291 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:20:55.291 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:20:55.292 1 [error] <0.1469.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1469.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```



```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 19:20:55.292 1 [error] <0.1470.1>@Undefined:Undefined:Undefined
gen_server <0.1470.1> terminated with reason: connection_down
2022-06-27 19:20:55.293 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1469.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5327>,socket_mon =>
#Ref<0.155928093.3973316611.163868>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1470.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:20:55.293 1 [error] <0.1470.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1470.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:20:55.293 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1470.1>,connection_down}
2022-06-27 19:20:59.915 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:21:01.716 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 2,<<"codr">> => <<"4/5">>,<<"data">> =>
```

```
<<"QDDaAAHmhYD3AlfOABLsL6IEOjgg8hdizZTHuiq6oc/
VJUY5SBJPQqzPB2fDlaAEJomBMw==">>,<<"datr">> =>
<<"SF12BW125">>,<<"foff">> => -305,<<"freq">> => 868.5,<<"jver">> =>
1,<<"lsnr">> => -14.0,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 1,<<"rssi">> => -108,<<"rssi">> => -122,<<"size">> => 52,<<"stat">> =>
1,<<"tmst">> => 522747400}}] from 12291671073248440251 on 35152
2022-06-27 19:21:05.294 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:21:05.526 1 [info] <0.1473.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:21:05.528 1 [info] <0.1473.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.1472.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:21:05.751 1 [error] <0.1472.1>@http2_client:handle_settings:822
gen_server <0.1472.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:21:05.752 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1473.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:21:05.752 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:21:05.753 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:21:05.753 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:21:05.757 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1472.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5328>,socket_mon =>
#Ref<0.155928093.3973316611.164011>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1473.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:21:05.757 1 [error] <0.1472.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1472.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 19:21:05.758 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1473.1>,connection\_down}

2022-06-27 19:21:05.759 1 [error] <0.1473.1>@Undefined:Undefined:Undefined gen\_server <0.1473.1> terminated with reason: connection\_down

2022-06-27 19:21:05.759 1 [error] <0.1473.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.1473.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:21:06.679 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #<{"stat">=> #<{"ackr">=> 0.0,<{"dwnb">=> 0,<{"rxfw">=> 1,<{"rxnb">=> 1,<{"rxok">=> 1,<{"temp">=> 0.0,<{"time">=> <{"2022-06-27 19:21:06 GMT">,<{"txnb">=> 0}} from 12291671073248440251 on 35152

2022-06-27 19:21:06.679 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #<{"ackr">=> 0.0,<{"dwnb">=> 0,<{"rxfw">=> 1,<{"rxnb">=> 1,<{"rxok">=> 1,<{"temp">=> 0.0,<{"time">=> <{"2022-06-27 19:21:06 GMT">,<{"txnb">=> 0}

2022-06-27 19:21:06.680 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway #gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5168,dropped=0,status=#<{"ackr">=> 0.0,<{"dwnb">=> 0,<{"rxfw">=> 1,<{"rxnb">=> 1,<{"rxok">=> 1,<{"temp">=> 0.0,<{"time">=> <{"2022-06-27 19:21:06 GMT">,<{"txnb">=> 0},rtt\_samples=[],rtt=5000000}

2022-06-27 19:21:10.058 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 19:21:15.756 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.228.115.118": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 19:21:16.031 1 [info] <0.1481.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 19:21:16.033 1 [info] <0.1481.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #<{buffer => <<>>,compression => none,connection => #<{client => http2\_client,host => <<"18.228.115.118">>,http\_connection => <0.1478.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #<{}>,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 19:21:16.302 1 [error] <0.1478.1>@http2\_client:handle\_settings:822

```
gen_server <0.1478.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:21:16.302 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1481.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]
2022-06-27 19:21:16.303 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:21:16.303 1 [error] <0.1478.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1478.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:21:16.303 1 [error] <0.1481.1>@Undefined:Undefined:Undefined
gen_server <0.1481.1> terminated with reason: connection_down
2022-06-27 19:21:16.303 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:21:16.303 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:21:16.303 1 [error] <0.1481.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1481.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:21:16.304 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1478.1>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5329>,socket_mon =>
#Ref<0.155928093.3973316611.164202>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1481.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:21:16.305 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1481.1>,connection_down}
2022-06-27 19:21:20.196 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:21:26.306 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:21:26.584 1 [info] <0.1500.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:21:26.585 1 [info] <0.1500.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.1499.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:21:26.858 1 [error] <0.1499.1>@http2_client:handle_settings:822
gen_server <0.1499.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:21:26.859 1 [error] <0.1499.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1499.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:21:26.859 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1500.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:21:26.860 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:21:26.860 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:21:26.860 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:21:26.860 1 [error] <0.1500.1>@Undefined:Undefined:Undefined
gen_server <0.1500.1> terminated with reason: connection_down
2022-06-27 19:21:26.861 1 [error] <0.1500.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.1500.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:21:26.862 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.1499.1>,{function\_clause,  
[http2\_client,handle\_settings,  
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,  
{<<":authority">>,<<"13.209.94.225">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "13.209.94.225",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5330>,socket\_mon =>  
#Ref<0.155928093.3973316611.164408>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.1500.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 19:21:26.863 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.1500.1>,connection\_down}  
2022-06-27 19:21:30.349 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:21:36.674 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 19:21:36 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 19:21:36.675 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:



```
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:21:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:21:36.676 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5172,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:21:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:21:36.863 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:21:37.134 1 [info] <0.1503.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:21:37.136 1 [info] <0.1503.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.1502.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:21:37.399 1 [error] <0.1502.1>@http2_client:handle_settings:822
gen_server <0.1502.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:21:37.400 1 [error] <0.1502.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1502.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:21:37.401 1 [error] <0.1503.1>@Undefined:Undefined:Undefined
gen_server <0.1503.1> terminated with reason: connection_down
2022-06-27 19:21:37.401 1 [error] <0.1503.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1503.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:21:37.402 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.1503.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:21:37.402 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:21:37.403 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:21:37.403 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:21:37.406 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1502.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5331>,socket_mon =>
#Ref<0.155928093.3973578754.55760>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1503.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 19:21:37.407 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1503.1>,connection_down}
2022-06-27 19:21:40.485 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:21:47.405 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:21:47.683 1 [info] <0.1506.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:21:47.684 1 [info] <0.1506.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.1505.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:21:47.955 1 [error] <0.1505.1>@http2_client:handle_settings:822
gen_server <0.1505.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:21:47.956 1 [error] <0.1505.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1505.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:21:47.957 1 [error] <0.1506.1>@Undefined:Undefined:Undefined
gen_server <0.1506.1> terminated with reason: connection_down
```

```
2022-06-27 19:21:47.958 1 [error] <0.1506.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1506.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:21:47.959 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1506.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:21:47.960 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:21:47.961 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:21:47.962 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:21:47.965 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1505.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5332>,socket_mon =>
#Ref<0.155928093.3974103041.70243>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1506.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:21:47.965 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1506.1>,connection_down}
2022-06-27 19:21:50.632 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:21:57.965 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:21:58.057 1 [info] <0.1509.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:21:58.059 1 [info] <0.1509.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.1508.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:21:58.140 1 [error] <0.1508.1>@http2_client:handle_settings:822
gen_server <0.1508.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:21:58.140 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1509.1>,{rcv,10000},infinity]}}}, Stack:[{gen_server,call,3,
```

```
[[file,"gen_server.erl"],{line,247}]],
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]},{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]},
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]},
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 19:21:58.141 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:21:58.141 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:21:58.141 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:21:58.142 1 [error] <0.1508.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1508.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:21:58.142 1 [error] <0.1509.1>@Undefined:Undefined:Undefined
gen_server <0.1509.1> terminated with reason: connection_down
2022-06-27 19:21:58.142 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1508.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],],encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5333>,socket_mon =>
#Ref<0.155928093.3973578754.55898>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1509.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:21:58.143 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1509.1>,connection_down}
2022-06-27 19:21:58.143 1 [error] <0.1509.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1509.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:22:00.782 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:22:06.676 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:22:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:22:06.676 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:22:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:22:06.678 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5176,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:22:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:22:08.143 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
```

```
{gateway_validators_req_v1_pb,1}
2022-06-27 19:22:08.478 1 [info] <0.1512.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:22:08.479 1 [info] <0.1512.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.1511.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:22:08.809 1 [error] <0.1511.1>@http2_client:handle_settings:822
gen_server <0.1511.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:22:08.811 1 [error] <0.1511.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1511.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:22:08.812 1 [error] <0.1512.1>@Undefined:Undefined:Undefined
gen_server <0.1512.1> terminated with reason: connection_down
2022-06-27 19:22:08.812 1 [error] <0.1512.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1512.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:22:08.812 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1512.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```



```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 19:22:08.812 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:22:08.813 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:22:08.813 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:22:08.814 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1511.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5334>,socket_mon =>
#Ref<0.155928093.3973316611.164721>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1512.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 19:22:08.814 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1512.1>,connection_down}
2022-06-27 19:22:10.932 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:22:18.816 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:22:18.899 1 [info] <0.1516.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:22:18.901 1 [info] <0.1516.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.1515.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:22:18.977 1 [error] <0.1515.1>@http2_client:handle_settings:822
gen_server <0.1515.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:22:18.978 1 [error] <0.1515.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1515.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:22:18.979 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1516.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 19:22:18.979 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:22:18.979 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:22:18.979 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:22:18.979 1 [error] <0.1516.1>@Undefined:Undefined:Undefined
gen_server <0.1516.1> terminated with reason: connection_down
2022-06-27 19:22:18.980 1 [error] <0.1516.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1516.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:22:18.981 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1515.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5335>,socket_mon =>
#Ref<0.155928093.3973316611.164759>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1516.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]]}
2022-06-27 19:22:18.982 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1516.1>,connection_down}
2022-06-27 19:22:21.082 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:22:21.673 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1638.0>
2022-06-27 19:22:28.981 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:22:29.258 1 [info] <0.1534.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:22:29.259 1 [info] <0.1534.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.1531.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:22:29.529 1 [error] <0.1531.1>@http2_client:handle_settings:822
gen_server <0.1531.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:22:29.529 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1534.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[[file,"gen_server.erl"],{line,247}]},
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]},{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:22:29.530 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:22:29.530 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:22:29.531 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:22:29.532 1 [error] <0.1531.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1531.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:22:29.532 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1531.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5336>,socket_mon =>
#Ref<0.155928093.3973316611.164798>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1534.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]]],
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:22:29.532 1 [error] <0.1534.1>@Undefined:Undefined:Undefined
gen_server <0.1534.1> terminated with reason: connection_down
2022-06-27 19:22:29.533 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1534.1>,connection_down}
2022-06-27 19:22:29.533 1 [error] <0.1534.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1534.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:22:31.232 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:22:36.674 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:22:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:22:36.675 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:22:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:22:36.676 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5180,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:22:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:22:39.534 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:22:39.870 1 [info] <0.1543.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:22:39.871 1 [info] <0.1543.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.1542.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:22:40.200 1 [error] <0.1542.1>@http2_client:handle_settings:822
gen_server <0.1542.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:22:40.201 1 [error] <0.1542.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1542.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:22:40.202 1 [error] <0.1543.1>@Undefined:Undefined:Undefined
gen_server <0.1543.1> terminated with reason: connection_down
2022-06-27 19:22:40.202 1 [error] <0.1543.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1543.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:22:40.202 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1543.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:22:40.203 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:22:40.203 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:22:40.204 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:22:40.205 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1542.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {54, {<<":authority">>,<<"3.24.161.210">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.24.161.210",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5337>,socket\_mon => #Ref<0.155928093.3973578754.56245>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.1543.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}

2022-06-27 19:22:40.205 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1543.1>,connection\_down}  
2022-06-27 19:22:41.315 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"rxpk">> => [#{<<"chan">> => 4,<<"codr">> => <<"4/5">>,<<"data">> => <<"QDDaAAEPw3YBAHPoACiqVYxomwpEuf6pGdTOPtwoVXL99Y/Q1YnPZ7pODNDVs4JfTvo7gg==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> => 163,<<"freq">> => 867.3,<<"jver">> => 1,<<"lsnr">> => 2.8,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -101,<<"rssiis">> => -102,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 622344858}]} from 12291671073248440251 on 35152  
2022-06-27 19:22:41.375 1 [info]



```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:22:50.206 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:22:50.298 1 [info] <0.1546.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:22:50.299 1 [info] <0.1546.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.1545.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:22:50.383 1 [error] <0.1545.1>@http2_client:handle_settings:822
gen_server <0.1545.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:22:50.384 1 [error] <0.1545.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1545.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:22:50.385 1 [error] <0.1546.1>@Undefined:Undefined:Undefined
gen_server <0.1546.1> terminated with reason: connection_down
2022-06-27 19:22:50.385 1 [error] <0.1546.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1546.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:22:50.385 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1546.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:22:50.386 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:22:50.386 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:22:50.386 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:22:50.388 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1545.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5338>,socket_mon =>
#Ref<0.155928093.3973578754.56330>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1546.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}}
2022-06-27 19:22:50.388 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1546.1>,connection_down}
2022-06-27 19:22:51.525 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:23:00.388 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:23:01.492 1 [info] <0.1549.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:23:01.493 1 [info] <0.1549.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.1548.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:23:01.575 1 [error] <0.1548.1>@http2_client:handle_settings:822
gen_server <0.1548.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:23:01.578 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1549.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[[file,"gen_server.erl"],{line,247}]},
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]},{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]},
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]},
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
```

```
2022-06-27 19:23:01.578 1 [error] <0.1548.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1548.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:23:01.579 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:23:01.579 1 [error] <0.1549.1>@Undefined:Undefined:Undefined
gen_server <0.1549.1> terminated with reason: connection_down
2022-06-27 19:23:01.580 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:23:01.580 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:23:01.583 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1548.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"3.72.215.7">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5339>,socket_mon =>
#Ref<0.155928093.3974103041.71620>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.1549.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:23:01.584 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1549.1>,connection_down}
2022-06-27 19:23:01.584 1 [error] <0.1549.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1549.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:23:01.682 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:23:06.674 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:23:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:23:06.674 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:23:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:23:06.676 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5184,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:23:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:23:06.753 1 [info] <0.1551.1>@libp2p_transport_proxy:connect:
{38,5} init proxy with ["/p2p/
112NEaW5fAH373iWskjAjlRktSsRL9zUfrCEULNudzNByDTrjuR"/p2p/
1114DCtXFn4MUPg1HLe9Fdq32Zw2LmJPbCD5dUz9XNh31QpG9M8"]
2022-06-27 19:23:06.759 1 [error]
<0.1551.1>@libp2p_transport_proxy:connect_to:{69,13} failed to dial proxy server
"/p2p/112NEaW5fAH373iWskjAjlRktSsRL9zUfrCEULNudzNByDTrjuR" not_found
2022-06-27 19:23:06.761 1 [warning]
<0.1638.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
1114DCtXFn4MUPg1HLe9Fdq32Zw2LmJPbCD5dUz9XNh31QpG9M8": [{"/p2p/
112NEaW5fAH373iWskjAjlRktSsRL9zUfrCEULNudzNByDTrjuR/p2p-circuit/p2p/
1114DCtXFn4MUPg1HLe9Fdq32Zw2LmJPbCD5dUz9XNh31QpG9M8",fail_dial_pro
xy}]
2022-06-27 19:23:11.583 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

unary request via new connection to ip "3.131.232.233":

```
{gateway_validators_req_v1_pb,1}
2022-06-27 19:23:11.750 1 [info] <0.1554.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:23:11.752 1 [info] <0.1554.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.1553.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:23:11.832 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:23:11.909 1 [error] <0.1553.1>@http2_client:handle_settings:822
gen_server <0.1553.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:23:11.911 1 [error] <0.1553.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1553.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:23:11.911 1 [error] <0.1554.1>@Undefined:Undefined:Undefined
gen_server <0.1554.1> terminated with reason: connection_down
2022-06-27 19:23:11.911 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1554.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 19:23:11.912 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:23:11.912 1 [error] <0.1554.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1554.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:23:11.912 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:23:11.912 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:23:11.915 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1553.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5344>,socket_mon =>
#Ref<0.155928093.3974103041.71796>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.1554.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}
```

2022-06-27 19:23:11.916 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1554.1>,connection\_down}

2022-06-27 19:23:21.915 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.70.239.5":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 19:23:21.992 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 19:23:22.145 1 [info] <0.1558.1>@grpc\_client\_stream\_custom:init:{131,9} init stream for RPC validators and type unary

2022-06-27 19:23:22.146 1 [info] <0.1558.1>@grpc\_client\_stream\_custom:init:{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"54.70.239.5">>,http\_connection => <0.1557.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 19:23:22.366 1 [error] <0.1557.1>@http2\_client:handle\_settings:822 gen\_server <0.1557.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:23:22.368 1 [error] <0.1557.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.1557.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:23:22.368 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:{283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.1558.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0,



```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:23:22.368 1 [error] <0.1558.1>@Undefined:Undefined:Undefined
gen_server <0.1558.1> terminated with reason: connection_down
2022-06-27 19:23:22.368 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:23:22.369 1 [error] <0.1558.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1558.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:23:22.369 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:23:22.369 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:23:22.371 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1557.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5345>,socket_mon =>
#Ref<0.155928093.3974103041.71937>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.1558.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:23:22.371 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1558.1>,connection_down}
2022-06-27 19:23:32.138 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:23:32.371 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:23:32.466 1 [info] <0.1564.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:23:32.467 1 [info] <0.1564.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.1563.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:23:32.551 1 [error] <0.1563.1>@http2_client:handle_settings:822
gen_server <0.1563.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:23:32.553 1 [error] <0.1563.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1563.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:23:32.554 1 [error] <0.1564.1>@Undefined:Undefined:Undefined
gen_server <0.1564.1> terminated with reason: connection_down
2022-06-27 19:23:32.555 1 [error] <0.1564.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1564.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 19:23:32.557 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1564.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 19:23:32.558 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 19:23:32.558 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 19:23:32.559 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 19:23:32.562 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1563.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5346>,socket_mon =>
#Ref<0.155928093.3974103041.72045>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1564.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:23:32.563 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1564.1>,connection_down}
2022-06-27 19:23:36.674 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:23:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:23:36.675 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:23:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:23:36.676 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5188,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:23:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:23:42.292 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:23:42.561 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:23:42.838 1 [info] <0.1579.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:23:42.839 1 [info] <0.1579.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.1578.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:23:43.106 1 [error] <0.1578.1>@http2_client:handle_settings:822
gen_server <0.1578.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:23:43.106 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1579.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:23:43.107 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:23:43.107 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:23:43.107 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:23:43.108 1 [error] <0.1578.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1578.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:23:43.108 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.1578.1>,{function_clause,
[{{http2_client,handle_settings,
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5347>,socket_mon =>
#Ref<0.155928093.3974103041.72173>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.1579.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:23:43.109 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1579.1>,connection_down}
2022-06-27 19:23:43.109 1 [error] <0.1579.1>@Undefined:Undefined:Undefined
gen_server <0.1579.1> terminated with reason: connection_down
2022-06-27 19:23:43.109 1 [error] <0.1579.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1579.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:23:52.442 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:23:53.109 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:23:53.200 1 [info] <0.1582.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 19:23:53.202 1 [info] <0.1582.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.1581.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:23:53.284 1 [error] <0.1581.1>@http2_client:handle_settings:822
gen_server <0.1581.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:23:53.285 1 [error] <0.1581.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1581.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:23:53.287 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1582.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:23:53.287 1 [error] <0.1582.1>@Undefined:Undefined:Undefined
gen_server <0.1582.1> terminated with reason: connection_down
2022-06-27 19:23:53.287 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:23:53.288 1 [error] <0.1582.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.1582.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:23:53.288 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 19:23:53.288 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 19:23:53.289 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.1581.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,282,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{52,  
{<<":authority">>,<<"52.30.1.39">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}]},host => "52.30.1.39",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5348>,socket\_mon =>  
#Ref<0.155928093.3974103041.72253>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.1582.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}  
2022-06-27 19:23:53.289 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.1582.1>,connection\_down}  
2022-06-27 19:24:02.588 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:24:03.291 1 [info]



```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:24:03.375 1 [info] <0.1585.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:24:03.376 1 [info] <0.1585.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.1584.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:24:03.452 1 [error] <0.1584.1>@http2_client:handle_settings:822
gen_server <0.1584.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:24:03.453 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1585.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:24:03.453 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:24:03.453 1 [error] <0.1584.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1584.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:24:03.453 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:24:03.453 1 [error] <0.1585.1>@Undefined:Undefined:Undefined
gen_server <0.1585.1> terminated with reason: connection_down
2022-06-27 19:24:03.453 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:24:03.454 1 [error] <0.1585.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1585.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:24:03.455 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1584.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5349>,socket_mon =>
#Ref<0.155928093.3974103041.72413>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.1585.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:24:03.455 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.1585.1>,connection_down}
2022-06-27 19:24:06.688 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:24:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:24:06.689 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:24:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:24:06.692 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5192,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:24:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:24:12.739 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:24:13.455 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:24:13.695 1 [info] <0.1588.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:24:13.697 1 [info] <0.1588.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.1587.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:24:13.933 1 [error] <0.1587.1>@http2_client:handle_settings:822
gen_server <0.1587.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:24:13.935 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1588.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:24:13.935 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:24:13.936 1 [error] <0.1587.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1587.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:24:13.936 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:24:13.937 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:24:13.937 1 [error] <0.1588.1>@Undefined:Undefined:Undefined
gen_server <0.1588.1> terminated with reason: connection_down
2022-06-27 19:24:13.938 1 [error] <0.1588.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1588.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:24:13.941 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1587.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {56,
{<<":authority">>,<<"52.220.227.216">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5350>,socket_mon =>
#Ref<0.155928093.3973578754.57010>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1588.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 19:24:13.942 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1588.1>,connection_down}
2022-06-27 19:24:22.892 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:24:23.940 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:24:24.213 1 [info] <0.1591.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:24:24.215 1 [info] <0.1591.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.1590.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:24:24.479 1 [error] <0.1590.1>@http2_client:handle_settings:822
gen_server <0.1590.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:24:24.480 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1591.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:24:24.480 1 [error] <0.1590.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1590.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:24:24.480 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:24:24.480 1 [error] <0.1591.1>@Undefined:Undefined:Undefined
gen_server <0.1591.1> terminated with reason: connection_down
2022-06-27 19:24:24.481 1 [error] <0.1591.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1591.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:24:24.481 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:24:24.481 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:24:24.482 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1590.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"13.209.94.225">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5351>,socket_mon =>
#Ref<0.155928093.3973578754.57098>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1591.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:24:24.483 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1591.1>,connection_down}
2022-06-27 19:24:33.042 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:24:34.483 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:24:34.715 1 [info] <0.1596.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:24:34.718 1 [info] <0.1596.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.1594.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:24:34.943 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1596.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:24:34.944 1 [error] <0.1594.1>@http2_client:handle_settings:822
gen_server <0.1594.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:24:34.944 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:24:34.945 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:24:34.945 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:24:34.946 1 [error] <0.1594.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1594.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:24:34.947 1 [error] <0.1596.1>@Undefined:Undefined:Undefined
gen_server <0.1596.1> terminated with reason: connection_down
2022-06-27 19:24:34.948 1 [error] <0.1596.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1596.1> with 0 neighbours exited with reason:
```



```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:24:34.950 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1594.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5352>,socket_mon =>
#Ref<0.155928093.3973578754.57206>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1596.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:24:34.951 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1596.1>,connection_down}
2022-06-27 19:24:36.687 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:24:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:24:36.688 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:24:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:24:36.689 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
```

{440,5} Gateway

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5196,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:24:36 GMT">>,<<"txnb">> =>
```

```
0},rtt_samples=[],rtt=5000000}
```

```
2022-06-27 19:24:43.186 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 19:24:44.948 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
```

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 19:24:45.030 1 [info] <0.1613.1>@grpc_client_stream_custom:init:
```

```
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 19:24:45.033 1 [info] <0.1613.1>@grpc_client_stream_custom:init:
```

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"3.70.55.231">>,http_connection => <0.1612.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 19:24:45.107 1 [error] <0.1612.1>@http2_client:handle_settings:822
```

```
gen_server <0.1612.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 19:24:45.109 1 [error] <0.1612.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.1612.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
```

```
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 19:24:45.112 1 [error] <0.1613.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.1613.1> terminated with reason: connection_down
```

```
2022-06-27 19:24:45.113 1 [error] <0.1613.1>@Undefined:Undefined:Undefined
```

```
CRASH REPORT Process <0.1613.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 19:24:45.115 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.1613.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:24:45.116 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:24:45.116 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:24:45.117 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:24:45.119 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1612.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5353>,socket_mon =>
#Ref<0.155928093.3973578754.57362>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1613.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 19:24:45.120 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1613.1>,connection_down}
2022-06-27 19:24:53.331 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:24:55.119 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:24:55.390 1 [info] <0.1616.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:24:55.391 1 [info] <0.1616.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.1615.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:24:55.657 1 [error] <0.1615.1>@http2_client:handle_settings:822
gen_server <0.1615.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:24:55.659 1 [error] <0.1615.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1615.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:24:55.663 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.1616.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:24:55.663 1 [error] <0.1616.1>@Undefined:Undefined:Undefined
gen_server <0.1616.1> terminated with reason: connection_down
2022-06-27 19:24:55.663 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:24:55.664 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:24:55.664 1 [error] <0.1616.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1616.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:24:55.664 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:24:55.669 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1615.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5354>,socket_mon =>
#Ref<0.155928093.3973578754.57432>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1616.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:24:55.670 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1616.1>,connection_down}
2022-06-27 19:25:03.469 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:25:05.667 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:25:05.757 1 [info] <0.1619.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:25:05.758 1 [info] <0.1619.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.1618.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:25:05.847 1 [error] <0.1618.1>@http2_client:handle_settings:822
gen_server <0.1618.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:25:05.849 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1619.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]],
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:25:05.849 1 [error] <0.1618.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1618.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:25:05.849 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:25:05.850 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:25:05.851 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:25:05.852 1 [error] <0.1619.1>@Undefined:Undefined:Undefined
gen_server <0.1619.1> terminated with reason: connection_down
2022-06-27 19:25:05.853 1 [error] <0.1619.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1619.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:25:05.855 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1618.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5355>,socket_mon =>
#Ref<0.155928093.3973578754.57516>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1619.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}
2022-06-27 19:25:05.856 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1619.1>,connection_down}
2022-06-27 19:25:06.688 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:25:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:25:06.688 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:25:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:25:06.689 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5200,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:25:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:25:13.602 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:25:15.853 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
```



```
{gateway_validators_req_v1_pb,1}
2022-06-27 19:25:16.083 1 [info] <0.1622.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:25:16.084 1 [info] <0.1622.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.1621.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:25:16.306 1 [error] <0.1621.1>@http2_client:handle_settings:822
gen_server <0.1621.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:25:16.307 1 [error] <0.1621.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1621.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:25:16.308 1 [error] <0.1622.1>@Undefined:Undefined:Undefined
gen_server <0.1622.1> terminated with reason: connection_down
2022-06-27 19:25:16.309 1 [error] <0.1622.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1622.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:25:16.310 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1622.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 19:25:16.310 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:25:16.311 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:25:16.311 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:25:16.312 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1621.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.89.130.114">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5356>,socket_mon =>
#Ref<0.155928093.3973578754.57617>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1622.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:25:16.312 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1622.1>,connection_down}
2022-06-27 19:25:20.494 1 [info]
```

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"rxpk">> => [#{<<"chan">> => 5,<<"codr">> => <<"4/5">>,<<"data">> =>  
<<"QDDaAAEHnS1SADQSAH37ygdyYYJvkuqa+sQ6/  
o9bi8qfQLY8bb8JEIYfBvv1vwOFq39sOQ==">>,<<"datr">> =>  
<<"SF12BW125">>,<<"foff">> => -36,<<"freq">> => 867.5,<<"jver">> =>  
1,<<"lsnr">> => -12.8,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">>  
=> 0,<<"rssi">> => -112,<<"rssi\_s">> => -124,<<"size">> => 52,<<"stat">> =>  
1,<<"tmst">> => 781526234}}] from 12291671073248440251 on 35152  
2022-06-27 19:25:23.738 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:25:26.313 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.132.190.192":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 19:25:27.476 1 [info] <0.1626.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary

2022-06-27 19:25:27.477 1 [info] <0.1626.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"3.132.190.192">>,http\_connection => <0.1625.1>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 19:25:27.633 1 [error] <0.1625.1>@http2\_client:handle\_settings:822

gen\_server <0.1625.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 19:25:27.633 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.1626.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:25:27.633 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:25:27.635 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:25:27.635 1 [error] <0.1625.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1625.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:25:27.635 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:25:27.636 1 [error] <0.1626.1>@Undefined:Undefined:Undefined
gen_server <0.1626.1> terminated with reason: connection_down
2022-06-27 19:25:27.637 1 [error] <0.1626.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1626.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:25:27.640 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1625.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5357>,socket_mon =>
#Ref<0.155928093.3973578754.57698>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1626.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:25:27.641 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1626.1>,connection_down}
2022-06-27 19:25:29.215 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112k14NoY6cTQedJANLDBNE5aMdGR3H3j4pMhqHjVfthoniF1uvEo" informed us of
our observed address "/ip4/80.77.186.186/tcp/41278"
2022-06-27 19:25:33.882 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:25:36.683 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:25:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:25:36.683 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:25:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:25:36.684 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5204,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:25:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:25:37.639 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:25:37.809 1 [info] <0.1645.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:25:37.810 1 [info] <0.1645.1>@grpc_client_stream_custom:init:
```

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.1644.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:25:37.968 1 [error] <0.1644.1>@http2_client:handle_settings:822
gen_server <0.1644.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:25:37.969 1 [error] <0.1644.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1644.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:25:37.970 1 [error] <0.1645.1>@Undefined:Undefined:Undefined
gen_server <0.1645.1> terminated with reason: connection_down
2022-06-27 19:25:37.971 1 [error] <0.1645.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1645.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:25:37.972 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1645.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:25:37.972 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 19:25:37.973 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:25:37.973 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:25:37.976 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1644.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5363>,socket_mon =>
#Ref<0.155928093.3973578754.57846>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1645.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}}}}
2022-06-27 19:25:37.976 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1645.1>,connection_down}
2022-06-27 19:25:44.046 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:25:47.975 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

```
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:25:48.066 1 [info] <0.1661.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:25:48.067 1 [info] <0.1661.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.1660.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:25:48.153 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1661.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:25:48.153 1 [error] <0.1660.1>@http2_client:handle_settings:822
gen_server <0.1660.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:25:48.153 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:25:48.154 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:25:48.154 1 [error] <0.1660.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1660.1> with 0 neighbours crashed with reason: no
```



```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:25:48.154 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:25:48.154 1 [error] <0.1661.1>@Undefined:Undefined:Undefined
gen_server <0.1661.1> terminated with reason: connection_down
2022-06-27 19:25:48.155 1 [error] <0.1661.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1661.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:25:48.156 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1660.1>,{function_clause,
[{:http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5364>,socket_mon =>
#Ref<0.155928093.3973578754.57999>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1661.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}
2022-06-27 19:25:48.157 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1661.1>,connection_down}
```

2022-06-27 19:25:54.202 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 19:25:54.517 1 [info] <0.1636.0>@libp2p\_peerbook:notify\_peers: {726,5} gossiping out 1270 notify peers

2022-06-27 19:25:58.157 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.137.92.200": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 19:25:59.329 1 [info] <0.1667.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 19:25:59.331 1 [info] <0.1667.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.137.92.200">>,http\_connection => <0.1666.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 19:25:59.484 1 [error] <0.1666.1>@http2\_client:handle\_settings:822 gen\_server <0.1666.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:25:59.486 1 [error] <0.1666.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.1666.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:25:59.486 1 [error] <0.1667.1>@Undefined:Undefined:Undefined gen\_server <0.1667.1> terminated with reason: connection\_down

2022-06-27 19:25:59.487 1 [error] <0.1667.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.1667.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:25:59.487 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.1667.1>,{rcv,10000},infinity]}}, Stack: [{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6,

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[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 19:25:59.487 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:25:59.488 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:25:59.488 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:25:59.489 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1666.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"3.137.92.200">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5365>,socket_mon =>
#Ref<0.155928093.3974103041.74694>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1667.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[[file,"http2_client.erl"],{line,822}]],
```

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{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:25:59.490 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1667.1>,connection_down}
2022-06-27 19:26:04.362 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:26:06.686 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:26:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:26:06.686 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:26:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:26:06.688 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5208,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:26:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:26:09.491 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:26:09.769 1 [info] <0.1670.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:26:09.770 1 [info] <0.1670.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.1669.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:26:10.046 1 [error] <0.1669.1>@http2_client:handle_settings:822
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gen_server <0.1669.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:26:10.049 1 [error] <0.1669.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1669.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:26:10.050 1 [error] <0.1670.1>@Undefined:Undefined:Undefined
gen_server <0.1670.1> terminated with reason: connection_down
2022-06-27 19:26:10.051 1 [error] <0.1670.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1670.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:26:10.051 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1670.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:26:10.052 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:26:10.052 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:26:10.053 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:26:10.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1669.1>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5366>,socket_mon =>
#Ref<0.155928093.3974103041.74885>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1670.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:26:10.059 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1670.1>,connection_down}
2022-06-27 19:26:14.515 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:26:20.056 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:26:20.283 1 [info] <0.1673.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:26:20.284 1 [info] <0.1673.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.1672.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:26:20.792 1 [error] <0.1672.1>@http2_client:handle_settings:822
gen_server <0.1672.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:26:20.794 1 [error] <0.1672.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1672.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:26:20.795 1 [error] <0.1673.1>@Undefined:Undefined:Undefined
gen_server <0.1673.1> terminated with reason: connection_down
2022-06-27 19:26:20.796 1 [error] <0.1673.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1673.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:26:20.797 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1673.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:26:20.798 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:26:20.799 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:26:20.799 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:26:20.803 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1672.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "35.82.239.134",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5367>,socket\_mon => #Ref<0.155928093.3973578754.58284>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.1673.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}}  
2022-06-27 19:26:20.804 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1673.1>,connection\_down}  
2022-06-27 19:26:24.658 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:26:30.802 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.215.75.202":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:26:31.040 1 [info] <0.1676.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 19:26:31.041 1 [info] <0.1676.1>@grpc\_client\_stream\_custom:init:



```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.1675.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:26:31.275 1 [error] <0.1675.1>@http2_client:handle_settings:822
gen_server <0.1675.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:26:31.278 1 [error] <0.1675.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1675.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:26:31.278 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1676.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:26:31.278 1 [error] <0.1676.1>@Undefined:Undefined:Undefined
gen_server <0.1676.1> terminated with reason: connection_down
2022-06-27 19:26:31.278 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:26:31.279 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 19:26:31.279 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:26:31.279 1 [error] <0.1676.1>@Undefined:Undefined:Undefined

CRASH REPORT Process <0.1676.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:26:31.281 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1675.1>,{function\_clause,

{http2\_client,handle\_settings,

[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,

{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,

{<<"content-type">>,<<"application/grpc+proto">>}},{55,

{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/

validators">>}}},host => "13.215.75.202",last\_stream => 1,owner =>

<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size

=> 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},server\_window => 65528,socket => #Port<0.5368>,socket\_mon =>

#Ref<0.155928093.3974103041.75225>,state => open,stream\_count =>

1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>

1,owner => <0.1676.1>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>

gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}},

{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}},

{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}},

{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}},

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}

2022-06-27 19:26:31.282 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1676.1>,connection\_down}

2022-06-27 19:26:34.799 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 19:26:36.698 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA

```
#{"stat": 0, "ackr": 0.0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0.0, "time": "2022-06-27 19:26:36 GMT", "txnb": 0} from
12291671073248440251 on 35152
2022-06-27 19:26:36.700 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status {"ackr": 0.0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0.0, "time": "2022-06-27 19:26:36 GMT", "txnb": 0}
2022-06-27 19:26:36.701 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5212,dropped=0,status={"ackr": 0.0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0.0, "time": "2022-06-27 19:26:36 GMT", "txnb": 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:26:41.282 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:26:41.617 1 [info] <0.1680.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:26:41.618 1 [info] <0.1680.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state {buffer => <<>>,compression =>
none,connection => {client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.1679.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:26:41.948 1 [error] <0.1679.1>@http2_client:handle_settings:822
gen_server <0.1679.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:26:41.949 1 [error] <0.1679.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1679.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:26:41.949 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1680.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:26:41.949 1 [error] <0.1680.1>@Undefined:Undefined:Undefined
gen_server <0.1680.1> terminated with reason: connection_down
2022-06-27 19:26:41.949 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:26:41.950 1 [error] <0.1680.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1680.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:26:41.950 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:26:41.950 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:26:41.952 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1679.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5374>,socket_mon =>
#Ref<0.155928093.3974103041.75407>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1680.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:26:41.952 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1680.1>,connection_down} 2022-06-27
19:26:43.265 1 [info] <0.1631.0>@libp2p_transport_tcp:record_observed_addr:
{1060,21} peer "/p2p/
112ek4k6EjgSGuA8mtR8n3oEbQfo9CbZjrQfjDnykUtYp8M8Ywo7" informed us of
our observed address "/ip4/80.77.186.186/tcp/5723"
2022-06-27 19:26:44.945 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:26:51.952 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:26:55.102 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:27:05.262 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:27:06.690 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:27:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:27:06.691 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:27:06 GMT">>,<<"txnb">> => 0}
```

2022-06-27 19:27:06.695 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5216,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 19:27:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 19:27:15.402 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:27:21.675 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for peerbook <0.1641.0>  
2022-06-27 19:27:21.956 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}]],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}]],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}]],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}]],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}]]]  
2022-06-27 19:27:21.956 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:27:21.957 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1697.1>,timeout}  
2022-06-27 19:27:21.957 1 [error] <0.1697.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.1697.1> with 0 neighbours exited with reason: timeout in gen\_server:init\_it/6 line 407  
2022-06-27 19:27:25.556 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:27:31.959 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.72.143.228":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:27:32.041 1 [info] <0.1723.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 19:27:32.042 1 [info] <0.1723.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

```
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.1722.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:27:32.118 1 [error] <0.1722.1>@http2_client:handle_settings:822
gen_server <0.1722.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:27:32.119 1 [error] <0.1722.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1722.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:27:32.121 1 [error] <0.1723.1>@Undefined:Undefined:Undefined
gen_server <0.1723.1> terminated with reason: connection_down
2022-06-27 19:27:32.121 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1723.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:27:32.121 1 [error] <0.1723.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1723.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:27:32.121 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 19:27:32.122 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:27:32.122 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:27:32.123 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1722.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[[42, {<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66, {<<"content-type">>,<<"application/grpc+proto">>}],{54, {<<":authority">>,<<"3.72.143.228">>}],{63,{<<":path">>,<<"/helium.gateway/validators">>}]}],host => "3.72.143.228",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5376>,socket\_mon => #Ref<0.155928093.3974103041.76378>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.1723.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 19:27:32.124 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1723.1>,connection\_down}

2022-06-27 19:27:35.702 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 19:27:36.693 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>



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0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:27:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:27:36.695 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:27:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:27:36.698 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5220,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:27:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:27:38.630 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11BeYyNmAVEWgamb4XszF7Qs5NQibqvpBkDdk5GWzenNHA7EuRc" informed us
of our observed address "/ip4/80.77.186.186/tcp/54861"
2022-06-27 19:27:42.125 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:27:42.207 1 [info] <0.1742.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:27:42.209 1 [info] <0.1742.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.1741.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:27:42.286 1 [error] <0.1741.1>@http2_client:handle_settings:822
gen_server <0.1741.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:27:42.288 1 [error] <0.1741.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1741.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 19:27:42.288 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1742.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:27:42.288 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:27:42.289 1 [error] <0.1742.1>@Undefined:Undefined:Undefined
gen_server <0.1742.1> terminated with reason: connection_down
2022-06-27 19:27:42.289 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:27:42.289 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:27:42.290 1 [error] <0.1742.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1742.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:27:42.291 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1741.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
```

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{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5382>,socket_mon =>
#Ref<0.155928093.3974103041.76573>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1742.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}
2022-06-27 19:27:42.292 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1742.1>,connection_down}
2022-06-27 19:27:45.842 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:27:52.292 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:27:52.562 1 [info] <0.1750.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:27:52.563 1 [info] <0.1750.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.1749.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:27:52.827 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1750.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 19:27:52.828 1 [error] <0.1749.1>@http2_client:handle_settings:822
gen_server <0.1749.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:27:52.828 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:27:52.828 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:27:52.828 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:27:52.829 1 [error] <0.1749.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1749.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:27:52.829 1 [error] <0.1750.1>@Undefined:Undefined:Undefined
gen_server <0.1750.1> terminated with reason: connection_down
2022-06-27 19:27:52.829 1 [error] <0.1750.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1750.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:27:52.830 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1749.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5383>,socket_mon =>
#Ref<0.155928093.3974103041.76811>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.1750.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:27:52.830 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1750.1>,connection_down}
2022-06-27 19:27:55.992 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:28:02.830 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:28:02.915 1 [info] <0.1755.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:28:02.916 1 [info] <0.1755.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.1754.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 19:28:02.990 1 [error] <0.1754.1>@http2_client:handle_settings:822
gen_server <0.1754.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:28:02.991 1 [error] <0.1754.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1754.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:28:02.992 1 [error] <0.1755.1>@Undefined:Undefined:Undefined
gen_server <0.1755.1> terminated with reason: connection_down
2022-06-27 19:28:02.992 1 [error] <0.1755.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1755.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:28:02.993 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1755.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:28:02.993 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:28:02.994 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:28:02.994 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:28:02.995 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.1754.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5384>,socket_mon =>
#Ref<0.155928093.3974103041.76997>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1755.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:28:02.996 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1755.1>,connection_down}
2022-06-27 19:28:06.139 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:28:06.694 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:28:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:28:06.694 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:28:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:28:06.696 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
```

```
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5224,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:28:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:28:12.996 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:28:13.076 1 [info] <0.1798.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:28:13.077 1 [info] <0.1798.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.1797.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:28:13.152 1 [error] <0.1797.1>@http2_client:handle_settings:822
gen_server <0.1797.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:28:13.152 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1798.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:28:13.153 1 [info]
```



<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}  
2022-06-27 19:28:13.153 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 19:28:13.153 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:28:13.154 1 [error] <0.1797.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.1797.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 19:28:13.154 1 [error] <0.1798.1>@Undefined:Undefined:Undefined gen\_server <0.1798.1> terminated with reason: connection\_down  
2022-06-27 19:28:13.154 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1797.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {54, {<<":authority">>,<<"3.72.143.228">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.72.143.228",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5392>,socket\_mon => #Ref<0.155928093.3974103041.77318>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.1798.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}]},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},

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{gen_server,handle_msg,6,[[file,"gen_server.erl"],{line,771}]},
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}]
2022-06-27 19:28:13.154 1 [error] <0.1798.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1798.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:28:13.155 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1798.1>,connection_down}
2022-06-27 19:28:16.278 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:28:16.859 1 [warning]
<0.1638.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
11zASd6YvSybmzDeomaDVZudmHh5FEdVED6yU2Bv7PnWQeSfqkh": [{"/
ip4/151.230.140.135/tcp/44158",timeout}]
2022-06-27 19:28:23.156 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:28:23.327 1 [info] <0.1801.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:28:23.329 1 [info] <0.1801.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.1800.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:28:23.486 1 [error] <0.1800.1>@http2_client:handle_settings:822
gen_server <0.1800.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:28:23.488 1 [error] <0.1800.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1800.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:28:23.491 1 [error] <0.1801.1>@Undefined:Undefined:Undefined
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gen_server <0.1801.1> terminated with reason: connection_down
2022-06-27 19:28:23.492 1 [error] <0.1801.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1801.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:28:23.492 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1801.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:28:23.493 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:28:23.494 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:28:23.494 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:28:23.497 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1800.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5393>,socket_mon =>
#Ref<0.155928093.3974103041.77500>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1801.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:28:23.500 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1801.1>,connection_down} 2022-06-27
19:28:26.422 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 19:28:33.497 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:28:33.736 1 [info] <0.1804.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:28:33.737 1 [info] <0.1804.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.1803.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:28:33.970 1 [error] <0.1803.1>@http2_client:handle_settings:822
gen_server <0.1803.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:28:33.970 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1804.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
{file,"gen_server.erl"},{line,247}}},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:28:33.971 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:28:33.972 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:28:33.972 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:28:33.973 1 [error] <0.1803.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1803.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:28:33.974 1 [error] <0.1804.1>@Undefined:Undefined:Undefined
gen_server <0.1804.1> terminated with reason: connection_down
2022-06-27 19:28:33.975 1 [error] <0.1804.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1804.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:28:33.976 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1803.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

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{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5394>,socket_mon =>
#Ref<0.155928093.3974103041.77674>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.1804.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}}
2022-06-27 19:28:33.977 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1804.1>,connection_down}
2022-06-27 19:28:36.568 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:28:36.698 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:28:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:28:36.699 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:28:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:28:36.701 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5228,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:28:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:28:42.952 1 [warning]
<0.1638.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
112jGdzG5Gn6WvTPHjGnZnjJoXsV2ruaViQDSrJisSjKEc5QhuwQ": [{"/
```

```
ip4/77.120.38.48/tcp/44159",timeout}]
2022-06-27 19:28:43.975 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:28:44.254 1 [info] <0.1813.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:28:44.255 1 [info] <0.1813.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.1812.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:28:44.531 1 [error] <0.1812.1>@http2_client:handle_settings:822
gen_server <0.1812.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:28:44.533 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1813.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:28:44.533 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:28:44.534 1 [error] <0.1812.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1812.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:28:44.534 1 [error] <0.1813.1>@Undefined:Undefined:Undefined
gen_server <0.1813.1> terminated with reason: connection_down
2022-06-27 19:28:44.535 1 [error] <0.1813.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1813.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:28:44.535 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:28:44.536 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:28:44.538 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1812.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"18.228.158.83">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5400>,socket_mon =>
#Ref<0.155928093.3973578754.59844>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1813.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}
```



```
2022-06-27 19:28:44.538 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1813.1>,connection_down}
2022-06-27 19:28:46.715 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:28:54.537 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:28:54.812 1 [info] <0.1821.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:28:54.813 1 [info] <0.1821.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.1820.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:28:55.082 1 [error] <0.1820.1>@http2_client:handle_settings:822
gen_server <0.1820.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:28:55.083 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1821.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:28:55.083 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 19:28:55.084 1 [error] <0.1820.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.1820.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 19:28:55.084 1 [error] <0.1821.1>@Undefined:Undefined:Undefined gen\_server <0.1821.1> terminated with reason: connection\_down

2022-06-27 19:28:55.084 1 [error] <0.1821.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.1821.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:28:55.085 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:28:55.085 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:28:55.087 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1820.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {56, {<<":authority">>,<<"54.207.131.103">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "54.207.131.103",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5401>,socket\_mon => #Ref<0.155928093.3974103041.78119>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.1821.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:28:55.087 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1821.1>,connection_down}
2022-06-27 19:28:56.862 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:29:05.088 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:29:05.366 1 [info] <0.1824.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:29:05.368 1 [info] <0.1824.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.1823.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:29:05.637 1 [error] <0.1823.1>@http2_client:handle_settings:822
gen_server <0.1823.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:29:05.639 1 [error] <0.1823.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1823.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:29:05.639 1 [error] <0.1824.1>@Undefined:Undefined:Undefined
gen_server <0.1824.1> terminated with reason: connection_down
2022-06-27 19:29:05.639 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1824.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[[file,"gen_server.erl"],{line,247}]],
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]},{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]},
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]},
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]]
2022-06-27 19:29:05.640 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:29:05.640 1 [error] <0.1824.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1824.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:29:05.640 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:29:05.640 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:29:05.641 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1823.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{55,
{<<":authority">>,<<"13.209.94.225">>}],{63,<<":path">>,<<"/helium.gateway/
validators">>}}]],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5402>,socket_mon =>
#Ref<0.155928093.3974103041.78279>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1824.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:29:05.642 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1824.1>,connection_down}
2022-06-27 19:29:06.707 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:29:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:29:06.707 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:29:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:29:06.709 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5231,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:29:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:29:07.011 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:29:15.643 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:29:15.873 1 [info] <0.1851.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:29:15.875 1 [info] <0.1851.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.1848.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:29:16.099 1 [error] <0.1848.1>@http2_client:handle_settings:822
gen_server <0.1848.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:29:16.100 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1851.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:29:16.100 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:29:16.101 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:29:16.101 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:29:16.102 1 [error] <0.1848.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1848.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:29:16.102 1 [error] <0.1851.1>@Undefined:Undefined:Undefined
gen_server <0.1851.1> terminated with reason: connection_down
```

```
2022-06-27 19:29:16.102 1 [error] <0.1851.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1851.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:29:16.103 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1848.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5404>,socket_mon =>
#Ref<0.155928093.3974103041.78648>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1851.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:29:16.104 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1851.1>,connection_down}
2022-06-27 19:29:17.155 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:29:26.103 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:29:26.442 1 [info] <0.1859.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 19:29:26.444 1 [info] <0.1859.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.1858.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:29:26.770 1 [error] <0.1858.1>@http2_client:handle_settings:822
gen_server <0.1858.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:29:26.771 1 [error] <0.1858.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1858.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:29:26.772 1 [error] <0.1859.1>@Undefined:Undefined:Undefined
gen_server <0.1859.1> terminated with reason: connection_down
2022-06-27 19:29:26.772 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1859.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:29:26.772 1 [error] <0.1859.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1859.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:29:26.772 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```



```
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:29:26.773 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:29:26.773 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:29:26.775 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1858.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5405>,socket_mon =>
#Ref<0.155928093.3974103041.78869>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1859.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:29:26.778 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1859.1>,connection_down}
2022-06-27 19:29:27.282 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:29:36.704 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:29:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:29:36.704 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:29:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:29:36.705 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5235,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:29:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:29:36.776 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:29:37.014 1 [info] <0.1863.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:29:37.015 1 [info] <0.1863.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.1862.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:29:37.248 1 [error] <0.1862.1>@http2_client:handle_settings:822
gen_server <0.1862.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:29:37.250 1 [error] <0.1862.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1862.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 19:29:37.250 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.1863.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]}

2022-06-27 19:29:37.250 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 19:29:37.250 1 [error] <0.1863.1>@Undefined:Undefined:Undefined  
gen\_server <0.1863.1> terminated with reason: connection\_down

2022-06-27 19:29:37.251 1 [error] <0.1863.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.1863.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:29:37.251 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 19:29:37.252 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 19:29:37.253 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.1862.1>,{function\_clause,  
[{"http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[],},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "54.251.77.229",last\_stream => 1,owner =>

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5406>,socket_mon =>
#Ref<0.155928093.3973578754.60211>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1863.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:29:37.253 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1863.1>,connection_down}
2022-06-27 19:29:37.429 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:29:47.253 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:29:47.490 1 [info] <0.1867.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:29:47.492 1 [info] <0.1867.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.1866.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:29:47.572 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:29:47.720 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1867.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:29:47.720 1 [error] <0.1866.1>@http2_client:handle_settings:822
gen_server <0.1866.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:29:47.721 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:29:47.721 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:29:47.721 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:29:47.722 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1866.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},server_window => 65528,socket => #Port<0.5407>,socket_mon =>
#Ref<0.155928093.3974103041.79427>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1867.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:29:47.722 1 [error] <0.1866.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1866.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:29:47.722 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1867.1>,connection_down}
2022-06-27 19:29:47.723 1 [error] <0.1867.1>@Undefined:Undefined:Undefined
gen_server <0.1867.1> terminated with reason: connection_down
2022-06-27 19:29:47.723 1 [error] <0.1867.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1867.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:29:57.722 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:29:57.723 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:29:57.962 1 [info] <0.1875.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:29:57.965 1 [info] <0.1875.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.1874.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 19:29:58.194 1 [error] <0.1874.1>@http2_client:handle_settings:822
gen_server <0.1874.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:29:58.195 1 [error] <0.1874.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1874.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:29:58.198 1 [error] <0.1875.1>@Undefined:Undefined:Undefined
gen_server <0.1875.1> terminated with reason: connection_down
2022-06-27 19:29:58.199 1 [error] <0.1875.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1875.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:29:58.199 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1875.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:29:58.199 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:29:58.200 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:29:58.200 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:29:58.203 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1874.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5408>,socket_mon =>
#Ref<0.155928093.3974103041.79613>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.1875.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 19:29:58.203 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1875.1>,connection_down}
2022-06-27 19:30:06.708 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:30:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:30:06.709 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:30:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:30:06.710 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```



```
ed=5239,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:30:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:30:07.869 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:30:08.203 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:30:08.364 1 [info] <0.1882.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:30:08.365 1 [info] <0.1882.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.1881.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:30:08.522 1 [error] <0.1881.1>@http2_client:handle_settings:822
gen_server <0.1881.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:30:08.524 1 [error] <0.1881.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1881.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:30:08.524 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1882.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:30:08.525 1 [error] <0.1882.1>@Undefined:Undefined:Undefined
gen_server <0.1882.1> terminated with reason: connection_down
2022-06-27 19:30:08.525 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:30:08.525 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:30:08.526 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:30:08.526 1 [error] <0.1882.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1882.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:30:08.529 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1881.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.13.130.184">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5409>,socket_mon =>
#Ref<0.155928093.3973316611.166240>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1882.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:30:08.531 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1882.1>,connection_down}
2022-06-27 19:30:18.021 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:30:18.529 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:30:19.818 1 [info] <0.1892.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:30:19.819 1 [info] <0.1892.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.1889.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:30:20.090 1 [error] <0.1889.1>@http2_client:handle_settings:822
gen_server <0.1889.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:30:20.091 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1892.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:30:20.092 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:30:20.093 1 [error] <0.1889.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1889.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:30:20.093 1 [error] <0.1892.1>@Undefined:Undefined:Undefined
gen_server <0.1892.1> terminated with reason: connection_down
2022-06-27 19:30:20.094 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:30:20.095 1 [error] <0.1892.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1892.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:30:20.095 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:30:20.098 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1889.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5410>,socket_mon =>
```

```
#Ref<0.155928093.3973578754.60519>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1892.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 19:30:20.099 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1892.1>,connection_down}
2022-06-27 19:30:28.169 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:30:30.098 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:30:30.377 1 [info] <0.1903.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:30:30.379 1 [info] <0.1903.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.1902.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:30:30.647 1 [error] <0.1902.1>@http2_client:handle_settings:822
gen_server <0.1902.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:30:30.650 1 [error] <0.1902.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1902.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 19:30:30.650 1 [error] <0.1903.1>@Undefined:Undefined:Undefined
gen_server <0.1903.1> terminated with reason: connection_down
2022-06-27 19:30:30.650 1 [error] <0.1903.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1903.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:30:30.651 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1903.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:30:30.651 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:30:30.652 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:30:30.652 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:30:30.653 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1902.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.209.94.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5411>,socket_mon =>
#Ref<0.155928093.3974103041.80368>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1903.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:30:30.654 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1903.1>,connection_down}
2022-06-27 19:30:36.703 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:30:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:30:36.705 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:30:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:30:36.707 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5243,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:30:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:30:38.309 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:30:40.655 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:30:40.747 1 [info] <0.1906.1>@grpc_client_stream_custom:init:
```

```
{131,9} init stream for RPC validators and type unary
2022-06-27 19:30:40.747 1 [info] <0.1906.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.1905.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:30:40.832 1 [error] <0.1905.1>@http2_client:handle_settings:822
gen_server <0.1905.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:30:40.832 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1906.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:30:40.833 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:30:40.833 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:30:40.833 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:30:40.834 1 [error] <0.1905.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1905.1> with 0 neighbours crashed with reason: no
```



```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:30:40.834 1 [error] <0.1906.1>@Undefined:Undefined:Undefined
gen_server <0.1906.1> terminated with reason: connection_down
2022-06-27 19:30:40.834 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1905.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5412>,socket_mon =>
#Ref<0.155928093.3974103041.80569>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1906.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}}
2022-06-27 19:30:40.834 1 [error] <0.1906.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1906.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:30:40.834 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1906.1>,connection_down}
2022-06-27 19:30:48.462 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 19:30:50.836 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:30:51.116 1 [info] <0.1910.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:30:51.117 1 [info] <0.1910.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.1909.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:30:51.391 1 [error] <0.1909.1>@http2_client:handle_settings:822
gen_server <0.1909.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:30:51.392 1 [error] <0.1909.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1909.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:30:51.393 1 [error] <0.1910.1>@Undefined:Undefined:Undefined
gen_server <0.1910.1> terminated with reason: connection_down
2022-06-27 19:30:51.393 1 [error] <0.1910.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1910.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:30:51.393 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1910.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:30:51.393 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:30:51.394 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:30:51.394 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:30:51.395 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1909.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"18.230.8.198">>}],{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5413>,socket_mon =>
#Ref<0.155928093.3973578754.60677>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1910.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:30:51.396 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1910.1>,connection_down}
2022-06-27 19:30:58.602 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:31:01.396 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:31:01.564 1 [info] <0.1918.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:31:01.567 1 [info] <0.1918.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.1917.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:31:01.725 1 [error] <0.1917.1>@http2_client:handle_settings:822
gen_server <0.1917.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:31:01.726 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1918.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:31:01.726 1 [error] <0.1917.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1917.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:31:01.726 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:31:01.726 1 [error] <0.1918.1>@Undefined:Undefined:Undefined
gen_server <0.1918.1> terminated with reason: connection_down
2022-06-27 19:31:01.727 1 [error] <0.1918.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1918.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:31:01.727 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:31:01.727 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:31:01.728 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1917.1>,{function_clause,
[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5414>,socket_mon =>
#Ref<0.155928093.3973578754.60858>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1918.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:31:01.729 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1918.1>,connection_down}
2022-06-27 19:31:06.712 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:31:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:31:06.713 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:31:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:31:06.715 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5247,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:31:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:31:08.745 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:31:11.730 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:31:11.814 1 [info] <0.1925.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:31:11.815 1 [info] <0.1925.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.1924.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:31:11.891 1 [error] <0.1924.1>@http2_client:handle_settings:822
gen_server <0.1924.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:31:11.892 1 [error] <0.1924.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1924.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:31:11.893 1 [error] <0.1925.1>@Undefined:Undefined:Undefined
gen_server <0.1925.1> terminated with reason: connection_down
2022-06-27 19:31:11.893 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1925.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:31:11.893 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:31:11.893 1 [error] <0.1925.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1925.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:31:11.893 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:31:11.894 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:31:11.895 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1924.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.122.38.248">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5415>,socket_mon =>
#Ref<0.155928093.3973578754.61002>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1925.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 19:31:11.896 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1925.1>,connection_down}
2022-06-27 19:31:13.594 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11vCcAwu4MmvaWnjGtaobgQdz2QoXekopfdHwGdq7Kjp2xcfE7f" informed us of
our observed address "/ip4/80.77.186.186/tcp/28616"
2022-06-27 19:31:18.895 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:31:21.895 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:31:22.175 1 [info] <0.1947.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:31:22.176 1 [info] <0.1947.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```



```
<<"54.207.131.103">>,http_connection => <0.1946.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:31:22.449 1 [error] <0.1946.1>@http2_client:handle_settings:822
gen_server <0.1946.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:31:22.451 1 [error] <0.1946.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1946.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:31:22.451 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1947.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:31:22.451 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:31:22.451 1 [error] <0.1947.1>@Undefined:Undefined:Undefined
gen_server <0.1947.1> terminated with reason: connection_down
2022-06-27 19:31:22.452 1 [error] <0.1947.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1947.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:31:22.452 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 19:31:22.452 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:31:22.454 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1946.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096, [{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66, {<<"content-type">>,<<"application/grpc+proto">>}}],{56, {<<":authority">>,<<"54.207.131.103">>}}],{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "54.207.131.103",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5421>,socket\_mon => #Ref<0.155928093.3973578754.61254>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.1947.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 19:31:22.455 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1947.1>,connection\_down}  
2022-06-27 19:31:29.045 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:31:32.455 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.13.130.184":  
{gateway\_validators\_req\_v1\_pb,1}

```
2022-06-27 19:31:32.616 1 [info] <0.1963.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:31:32.616 1 [info] <0.1963.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.1962.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:31:32.775 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1963.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:31:32.776 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:31:32.776 1 [error] <0.1962.1>@http2_client:handle_settings:822
gen_server <0.1962.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:31:32.777 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:31:32.777 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:31:32.779 1 [error] <0.1962.1>@http2_client:handle_settings:822
```

CRASH REPORT Process <0.1962.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 19:31:32.780 1 [error] <0.1963.1>@Undefined:Undefined:Undefined gen\_server <0.1963.1> terminated with reason: connection\_down  
2022-06-27 19:31:32.780 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1962.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}},]}],host => "3.13.130.184",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5422>,socket\_mon => #Ref<0.155928093.3973578754.61452>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.1963.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]

2022-06-27 19:31:32.781 1 [error] <0.1963.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.1963.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:31:32.781 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.1963.1>,connection\_down}  
2022-06-27 19:31:36.716 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA

```
#{"stat": 0, "ackr": 0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0, "time": "2022-06-27 19:31:36 GMT", "txnb": 0} from
12291671073248440251 on 35152
2022-06-27 19:31:36.718 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{"ackr": 0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0, "time": "2022-06-27 19:31:36 GMT", "txnb": 0}
2022-06-27 19:31:36.720 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5251,dropped=0,status=#{"ackr": 0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0, "time": "2022-06-27 19:31:36 GMT", "txnb": 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:31:39.182 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:31:42.780 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:31:43.114 1 [info] <0.1966.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:31:43.116 1 [info] <0.1966.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.1965.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:31:43.443 1 [error] <0.1965.1>@http2_client:handle_settings:822
gen_server <0.1965.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:31:43.443 1 [error] <0.1965.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1965.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 19:31:43.445 1 [error] <0.1966.1>@Undefined:Undefined:Undefined
gen_server <0.1966.1> terminated with reason: connection_down
2022-06-27 19:31:43.445 1 [error] <0.1966.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1966.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:31:43.446 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1966.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:31:43.446 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:31:43.446 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:31:43.447 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:31:43.448 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1965.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{53,
{<<":authority">>,<<"3.104.32.11">>}}],{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5423>,socket_mon =>
#Ref<0.155928093.3973578754.61591>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1966.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:31:43.449 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1966.1>,connection_down}
2022-06-27 19:31:49.332 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:31:53.448 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:31:53.612 1 [info] <0.1969.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:31:53.614 1 [info] <0.1969.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.1968.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:31:53.768 1 [error] <0.1968.1>@http2_client:handle_settings:822
gen_server <0.1968.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 19:31:53.769 1 [error] <0.1968.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1968.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:31:53.772 1 [error] <0.1969.1>@Undefined:Undefined:Undefined
gen_server <0.1969.1> terminated with reason: connection_down
2022-06-27 19:31:53.772 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1969.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:31:53.772 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:31:53.773 1 [error] <0.1969.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1969.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:31:53.773 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:31:53.773 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:31:53.777 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1968.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```



```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5424>,socket_mon =>
#Ref<0.155928093.3973578754.61720>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1969.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:31:53.778 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1969.1>,connection_down}
2022-06-27 19:31:59.479 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:32:03.776 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:32:04.124 1 [info] <0.1977.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:32:04.125 1 [info] <0.1977.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.1976.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:32:04.457 1 [error] <0.1976.1>@http2_client:handle_settings:822
```

```
gen_server <0.1976.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:32:04.464 1 [error] <0.1976.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1976.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:32:04.466 1 [error] <0.1977.1>@Undefined:Undefined:Undefined
gen_server <0.1977.1> terminated with reason: connection_down
2022-06-27 19:32:04.467 1 [error] <0.1977.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1977.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:32:04.467 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1977.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:32:04.468 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:32:04.469 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:32:04.469 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:32:04.471 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1976.1>,{function_clause,
```

```
{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5425>,socket_mon =>
#Ref<0.155928093.3974103041.81703>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.1977.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:32:04.471 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1977.1>,connection_down}
2022-06-27 19:32:06.719 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:32:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:32:06.720 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:32:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:32:06.722 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5255,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 19:32:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:32:09.648 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:32:14.472 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:32:14.745 1 [info] <0.1986.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:32:14.746 1 [info] <0.1986.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.1985.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:32:15.014 1 [error] <0.1985.1>@http2_client:handle_settings:822
gen_server <0.1985.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:32:15.015 1 [error] <0.1985.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1985.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:32:15.016 1 [error] <0.1986.1>@Undefined:Undefined:Undefined
gen_server <0.1986.1> terminated with reason: connection_down
2022-06-27 19:32:15.016 1 [error] <0.1986.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1986.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:32:15.016 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1986.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 19:32:15.016 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:32:15.017 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:32:15.017 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:32:15.019 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1985.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{55,
{<<":authority">>,<<"18.228.158.83">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5426>,socket_mon =>
#Ref<0.155928093.3973578754.62115>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1986.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[[file,"http2_client.erl"],{line,822}]],
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:32:15.019 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1986.1>,connection_down}
2022-06-27 19:32:19.788 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:32:21.676 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1641.0>
2022-06-27 19:32:25.020 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:32:25.260 1 [info] <0.1996.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:32:25.263 1 [info] <0.1996.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.1995.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:32:25.499 1 [error] <0.1995.1>@http2_client:handle_settings:822
gen_server <0.1995.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:32:25.503 1 [error] <0.1995.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.1995.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:32:25.503 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.1996.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[[file,"gen_server.erl"],{line,247}]],
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]],{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 19:32:25.504 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:32:25.504 1 [error] <0.1996.1>@Undefined:Undefined:Undefined
gen_server <0.1996.1> terminated with reason: connection_down
2022-06-27 19:32:25.504 1 [error] <0.1996.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.1996.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:32:25.505 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:32:25.505 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:32:25.506 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1995.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},server_window => 65528,socket => #Port<0.5427>,socket_mon =>
#Ref<0.155928093.3973578754.62316>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.1996.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:32:25.507 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.1996.1>,connection_down}
2022-06-27 19:32:29.928 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:32:30.149 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11g1aLs5L1ugvHLRVcup58WnuhvWDW8mfqdB7DZ838SdALqRkq4" informed us
of our observed address "/ip4/80.77.186.186/tcp/8641"
2022-06-27 19:32:35.508 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:32:35.745 1 [info] <0.2027.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:32:35.746 1 [info] <0.2027.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.2026.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:32:36.275 1 [error] <0.2026.1>@http2_client:handle_settings:822
gen_server <0.2026.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```



```
2022-06-27 19:32:36.276 1 [error] <0.2026.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2026.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:32:36.277 1 [error] <0.2027.1>@Undefined:Undefined:Undefined
gen_server <0.2027.1> terminated with reason: connection_down
2022-06-27 19:32:36.277 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2027.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:32:36.277 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:32:36.277 1 [error] <0.2027.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2027.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:32:36.278 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:32:36.278 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:32:36.280 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2026.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5433>,socket_mon =>
#Ref<0.155928093.3974103041.82381>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2027.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:32:36.280 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2027.1>,connection_down}
2022-06-27 19:32:36.710 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:32:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:32:36.711 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:32:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:32:36.712 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5259,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:32:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:32:40.078 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 19:32:46.281 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:32:46.372 1 [info] <0.2033.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:32:46.373 1 [info] <0.2033.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.2032.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:32:46.457 1 [error] <0.2032.1>@http2_client:handle_settings:822
gen_server <0.2032.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:32:46.458 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2033.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:32:46.458 1 [error] <0.2032.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2032.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:32:46.459 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 19:32:46.459 1 [error] <0.2033.1>@Undefined:Undefined:Undefined gen\_server <0.2033.1> terminated with reason: connection\_down

2022-06-27 19:32:46.459 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:32:46.459 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:32:46.459 1 [error] <0.2033.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.2033.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:32:46.460 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2032.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,282,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {52, {<<":authority">>,<<"52.30.1.39">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "52.30.1.39",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5434>,socket\_mon => #Ref<0.155928093.3974103041.82495>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.2033.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}

2022-06-27 19:32:46.461 1 [warning]

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<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2033.1>,connection_down} 2022-06-27
19:32:50.229 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 19:32:56.462 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:32:56.545 1 [info] <0.2036.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:32:56.546 1 [info] <0.2036.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.2035.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:32:56.626 1 [error] <0.2035.1>@http2_client:handle_settings:822
gen_server <0.2035.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:32:56.627 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2036.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:32:56.627 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
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<<"stream create failed">>}}
2022-06-27 19:32:56.628 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:32:56.628 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:32:56.629 1 [error] <0.2035.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2035.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:32:56.630 1 [error] <0.2036.1>@Undefined:Undefined:Undefined
gen_server <0.2036.1> terminated with reason: connection_down
2022-06-27 19:32:56.631 1 [error] <0.2036.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2036.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:32:56.632 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2035.1>,{function_clause,
[{http2_client,handle_settings,
[[[],<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.122.38.248">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5435>,socket_mon =>
#Ref<0.155928093.3974103041.82575>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2036.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:32:56.633 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2036.1>,connection_down}
2022-06-27 19:33:00.379 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:33:06.631 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:33:06.722 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:33:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:33:06.723 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:33:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:33:06.725 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5263,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:33:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:33:06.793 1 [info] <0.2039.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:33:06.794 1 [info] <0.2039.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.2038.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:33:06.954 1 [error] <0.2038.1>@http2_client:handle_settings:822
gen_server <0.2038.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:33:06.958 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2039.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:33:06.958 1 [error] <0.2038.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2038.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:33:06.958 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:33:06.958 1 [error] <0.2039.1>@Undefined:Undefined:Undefined
gen_server <0.2039.1> terminated with reason: connection_down
2022-06-27 19:33:06.959 1 [error] <0.2039.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2039.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:33:06.960 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:33:06.960 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:33:06.962 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2038.1>,{function_clause,
[{http2_client,handle_settings,
```



```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.13.130.184">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5436>,socket_mon =>
#Ref<0.155928093.3973578754.62968>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2039.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 19:33:06.963 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2039.1>,connection_down}
2022-06-27 19:33:10.528 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:33:16.962 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:33:17.199 1 [info] <0.2047.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:33:17.201 1 [info] <0.2047.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.2046.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

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false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:33:17.431 1 [error] <0.2046.1>@http2_client:handle_settings:822
gen_server <0.2046.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:33:17.432 1 [error] <0.2046.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2046.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:33:17.433 1 [error] <0.2047.1>@Undefined:Undefined:Undefined
gen_server <0.2047.1> terminated with reason: connection_down
2022-06-27 19:33:17.433 1 [error] <0.2047.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2047.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:33:17.434 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2047.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:33:17.434 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:33:17.435 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:33:17.435 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

validator failed: {error,req\_failed}  
2022-06-27 19:33:17.436 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.2046.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{53,  
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}},host => "13.215.29.4",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5437>,socket\_mon =>  
#Ref<0.155928093.3973578754.63118>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.2047.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}

2022-06-27 19:33:17.437 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.2047.1>,connection\_down}

2022-06-27 19:33:20.658 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

2022-06-27 19:33:25.906 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"rxpk">> => [#{<<"chan">> => 6,<<"codr">> => <<"4/5">>,<<"data">> =>  
<<"QDDaAAHzAe3vADqaAHGByJtU6QX5/fxj1GbsU/  
EISU0DY2T7nKjvor9YUizy0cqCIDSkmA==">>,<<"datr">> =>  
<<"SF12BW125">>,<<"foff">> => -271,<<"freq">> => 867.7,<<"jver">> =>  
1,<<"lsnr">> => -21.5,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">>  
=> 0,<<"rssi">> => -111,<<"rssi">> => -131,<<"size">> => 52,<<"stat">> =>

1,<<"tmst">> => 1266936073}} from 12291671073248440251 on 35152  
2022-06-27 19:33:27.437 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.209.94.225":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:33:27.708 1 [info] <0.2056.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 19:33:27.711 1 [info] <0.2056.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"13.209.94.225">>,http\_connection => <0.2055.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 19:33:27.974 1 [error] <0.2055.1>@http2\_client:handle\_settings:822 gen\_server <0.2055.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 19:33:27.976 1 [error] <0.2055.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.2055.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 19:33:27.978 1 [error] <0.2056.1>@Undefined:Undefined:Undefined gen\_server <0.2056.1> terminated with reason: connection\_down  
2022-06-27 19:33:27.979 1 [error] <0.2056.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.2056.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:33:27.981 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.2056.1>,{rcv,10000},infinity]}}, Stack: [{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0,

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[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:33:27.982 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:33:27.983 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:33:27.984 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:33:27.989 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2055.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.209.94.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5438>,socket_mon =>
#Ref<0.155928093.3973578754.63280>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2056.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}
```

2022-06-27 19:33:27.989 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2056.1>,connection\_down}

2022-06-27 19:33:30.816 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 19:33:36.724 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 19:33:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 19:33:36.725 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 19:33:36 GMT">>,<<"txnb">> => 0}

2022-06-27 19:33:36.728 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway #gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5267,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 19:33:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 19:33:37.986 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.72.215.7": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 19:33:38.069 1 [info] <0.2071.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 19:33:38.070 1 [info] <0.2071.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.72.215.7">>,http\_connection => <0.2070.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[ ]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 19:33:38.151 1 [error] <0.2070.1>@http2\_client:handle\_settings:822 gen\_server <0.2070.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 19:33:38.154 1 [error] <0.2070.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2070.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 19:33:38.154 1 [error] <0.2071.1>@Undefined:Undefined:Undefined
gen_server <0.2071.1> terminated with reason: connection_down
2022-06-27 19:33:38.155 1 [error] <0.2071.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2071.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:33:38.155 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2071.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:33:38.156 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:33:38.157 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:33:38.157 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:33:38.160 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2070.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5439>,socket_mon =>
#Ref<0.155928093.3974103041.83234>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2071.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:33:38.161 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2071.1>,connection_down}
2022-06-27 19:33:40.959 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:33:48.160 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:33:48.494 1 [info] <0.2082.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:33:48.497 1 [info] <0.2082.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.2081.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```



```
2022-06-27 19:33:48.821 1 [error] <0.2081.1>@http2_client:handle_settings:822
gen_server <0.2081.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:33:48.823 1 [error] <0.2081.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2081.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:33:48.824 1 [error] <0.2082.1>@Undefined:Undefined:Undefined
gen_server <0.2082.1> terminated with reason: connection_down
2022-06-27 19:33:48.824 1 [error] <0.2082.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2082.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:33:48.825 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2082.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:33:48.825 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:33:48.826 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:33:48.826 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:33:48.828 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.2081.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5440>,socket_mon =>
#Ref<0.155928093.3973316611.166848>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2082.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:33:48.828 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2082.1>,connection_down}
2022-06-27 19:33:51.115 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:33:58.829 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:33:59.107 1 [info] <0.2085.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:33:59.109 1 [info] <0.2085.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.2084.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:33:59.378 1 [error] <0.2084.1>@http2_client:handle_settings:822
gen_server <0.2084.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:33:59.379 1 [error] <0.2084.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2084.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:33:59.380 1 [error] <0.2085.1>@Undefined:Undefined:Undefined
gen_server <0.2085.1> terminated with reason: connection_down
2022-06-27 19:33:59.381 1 [error] <0.2085.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2085.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:33:59.382 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2085.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:33:59.383 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:33:59.384 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 19:33:59.384 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:33:59.385 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2084.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5441>,socket_mon =>
#Ref<0.155928093.3974103041.83528>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2085.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:33:59.386 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2085.1>,connection_down}
2022-06-27 19:34:01.255 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:34:06.721 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:34:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

```
2022-06-27 19:34:06.721 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:34:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:34:06.722 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5271,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:34:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:34:07.234 1 [notice]
<0.2102.1>@libp2p_multistream_server:handle_info:{108,13} Failed to handshake
client "/ip4/192.168.5.233/tcp/50238": closed
2022-06-27 19:34:09.387 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:34:09.626 1 [info] <0.2105.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:34:09.628 1 [info] <0.2105.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.2104.1>,>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:34:09.856 1 [error] <0.2104.1>@http2_client:handle_settings:822
gen_server <0.2104.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:34:09.858 1 [error] <0.2104.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2104.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:34:09.858 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.2105.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:34:09.858 1 [error] <0.2105.1>@Undefined:Undefined:Undefined
gen_server <0.2105.1> terminated with reason: connection_down
2022-06-27 19:34:09.858 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:34:09.859 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:34:09.859 1 [error] <0.2105.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2105.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:34:09.859 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:34:09.862 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2104.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"54.70.239.5">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5448>,socket_mon =>
#Ref<0.155928093.3974103041.83671>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.2105.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:34:09.862 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2105.1>,connection_down}
2022-06-27 19:34:11.399 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:34:19.861 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:34:19.945 1 [info] <0.2109.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:34:19.946 1 [info] <0.2109.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.2108.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:34:20.022 1 [error] <0.2108.1>@http2_client:handle_settings:822
gen_server <0.2108.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:34:20.025 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2109.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]],
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:34:20.025 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:34:20.026 1 [error] <0.2108.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2108.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:34:20.026 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:34:20.026 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:34:20.027 1 [error] <0.2109.1>@Undefined:Undefined:Undefined
gen_server <0.2109.1> terminated with reason: connection_down
2022-06-27 19:34:20.028 1 [error] <0.2109.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2109.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:34:20.030 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2108.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
```



```
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5449>,socket_mon =>
#Ref<0.155928093.3974103041.83796>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2109.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:34:20.031 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2109.1>,connection_down}
2022-06-27 19:34:21.549 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:34:30.029 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:34:31.679 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:34:32.278 1 [info] <0.2121.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:34:32.279 1 [info] <0.2121.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.2118.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:34:32.757 1 [error] <0.2118.1>@http2_client:handle_settings:822
```

```
gen_server <0.2118.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:34:32.759 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2121.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:34:32.759 1 [error] <0.2118.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2118.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:34:32.759 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:34:32.759 1 [error] <0.2121.1>@Undefined:Undefined:Undefined
gen_server <0.2121.1> terminated with reason: connection_down
2022-06-27 19:34:32.760 1 [error] <0.2121.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2121.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:34:32.761 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:34:32.761 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:34:32.762 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2118.1>,{function_clause,
```

```
{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5450>,socket_mon =>
#Ref<0.155928093.3973578754.64161>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2121.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:34:32.763 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2121.1>,connection_down}
2022-06-27 19:34:36.717 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:34:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:34:36.717 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:34:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:34:36.718 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5275,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 19:34:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:34:41.832 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:34:42.764 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:34:42.848 1 [info] <0.2137.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:34:42.850 1 [info] <0.2137.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.2136.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:34:42.922 1 [error] <0.2136.1>@http2_client:handle_settings:822
gen_server <0.2136.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:34:42.923 1 [error] <0.2136.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2136.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:34:42.925 1 [error] <0.2137.1>@Undefined:Undefined:Undefined
gen_server <0.2137.1> terminated with reason: connection_down
2022-06-27 19:34:42.925 1 [error] <0.2137.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2137.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:34:42.926 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2137.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

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[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 19:34:42.926 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:34:42.927 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:34:42.927 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:34:42.929 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2136.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"3.122.38.248">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5451>,socket_mon =>
#Ref<0.155928093.3973578754.64237>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2137.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[[file,"http2_client.erl"],{line,822}]],
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:34:42.929 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2137.1>,connection_down}
2022-06-27 19:34:51.978 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:34:52.131 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 0,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAF/H/tWAKK7AN691GK/
aqpeF4NNoD04mc1L9lmgxY1W3D+xkebjTyGU5FPvHZ3/CA==">>,<<"datr">> =>
<<"SF12BW125">>,<<"foff">> => -42,<<"freq">> => 868.1,<<"jver">> =>
1,<<"lsnr">> => -7.2,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">> =>
1,<<"rssi">> => -106,<<"rssi">> => -113,<<"size">> => 52,<<"stat">> =>
1,<<"tmst">> => 1353160728]}} from 12291671073248440251 on 35152
2022-06-27 19:34:52.929 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:35:02.132 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:35:06.723 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:35:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:35:06.724 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:35:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:35:06.725 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5279,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:35:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:35:12.282 1 [info]
```

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:35:22.425 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:35:22.934 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[{"miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,719}]},  
{"miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{"miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{"gen\_statem,loop\_state\_callback,11,[{"file,"gen\_statem.erl"},{line,1203}]},  
{"proc\_lib,init\_p\_do\_apply,3,[{"file,"proc\_lib.erl"},{line,226}]]]  
2022-06-27 19:35:22.934 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:35:22.935 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2147.1>,timeout}  
2022-06-27 19:35:22.935 1 [error] <0.2147.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.2147.1> with 0 neighbours exited with reason: timeout in gen\_server:init\_it/6 line 407  
2022-06-27 19:35:32.572 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:35:32.936 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.237.155.172":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:35:33.270 1 [info] <0.2156.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 19:35:33.271 1 [info] <0.2156.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"13.237.155.172">>,http\_connection => <0.2155.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

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2022-06-27 19:35:33.599 1 [error] <0.2155.1>@http2_client:handle_settings:822
gen_server <0.2155.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:35:33.600 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2156.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:35:33.600 1 [error] <0.2155.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2155.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:35:33.601 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:35:33.601 1 [error] <0.2156.1>@Undefined:Undefined:Undefined
gen_server <0.2156.1> terminated with reason: connection_down
2022-06-27 19:35:33.601 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:35:33.601 1 [error] <0.2156.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2156.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:35:33.601 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:35:33.602 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```



```
in setup state: Type: info, Msg: {'EXIT',<0.2155.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5453>,socket_mon =>
#Ref<0.155928093.3973578754.64344>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2156.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}]}
2022-06-27 19:35:33.603 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2156.1>,connection_down}
2022-06-27 19:35:36.722 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:35:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:35:36.722 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:35:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:35:36.724 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5283,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
```

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=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:35:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:35:42.711 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:35:43.604 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:35:43.841 1 [info] <0.2165.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:35:43.843 1 [info] <0.2165.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.2164.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:35:44.071 1 [error] <0.2164.1>@http2_client:handle_settings:822
gen_server <0.2164.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:35:44.073 1 [error] <0.2164.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2164.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:35:44.074 1 [error] <0.2165.1>@Undefined:Undefined:Undefined
gen_server <0.2165.1> terminated with reason: connection_down
2022-06-27 19:35:44.074 1 [error] <0.2165.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2165.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:35:44.075 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2165.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{"file","gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 19:35:44.075 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:35:44.075 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:35:44.075 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:35:44.078 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2164.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5454>,socket_mon =>
#Ref<0.155928093.3973578754.64383>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2165.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:35:44.078 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2165.1>,connection_down}
2022-06-27 19:35:52.856 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:35:54.077 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:35:54.168 1 [info] <0.2186.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:35:54.169 1 [info] <0.2186.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.2185.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:35:54.256 1 [error] <0.2185.1>@http2_client:handle_settings:822
gen_server <0.2185.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:35:54.258 1 [error] <0.2185.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2185.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:35:54.259 1 [error] <0.2186.1>@Undefined:Undefined:Undefined
gen_server <0.2186.1> terminated with reason: connection_down
2022-06-27 19:35:54.260 1 [error] <0.2186.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2186.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 19:35:54.261 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2186.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 19:35:54.261 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 19:35:54.263 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 19:35:54.263 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 19:35:54.265 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2185.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.210.14.128">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5455>,socket_mon =>
#Ref<0.155928093.3973578754.64400>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2186.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}
2022-06-27 19:35:54.265 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2186.1>,connection_down}
2022-06-27 19:36:02.992 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:36:04.265 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:36:04.354 1 [info] <0.2189.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:36:04.355 1 [info] <0.2189.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.2188.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:36:04.438 1 [error] <0.2188.1>@http2_client:handle_settings:822
gen_server <0.2188.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:36:04.440 1 [error] <0.2188.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2188.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 19:36:04.442 1 [error] <0.2189.1>@Undefined:Undefined:Undefined  
gen\_server <0.2189.1> terminated with reason: connection\_down  
2022-06-27 19:36:04.443 1 [error] <0.2189.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.2189.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:36:04.445 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.2189.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 19:36:04.445 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 19:36:04.446 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 19:36:04.446 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 19:36:04.450 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.2188.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"52.210.14.128">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "52.210.14.128",last\_stream => 1,owner =>

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5456>,socket_mon =>
#Ref<0.155928093.3973578754.64428>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2189.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:36:04.450 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2189.1>,connection_down}
2022-06-27 19:36:06.723 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:36:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:36:06.724 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:36:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:36:06.727 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5287,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:36:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:36:13.148 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:36:14.449 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:36:14.726 1 [info] <0.2192.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```



```
2022-06-27 19:36:14.729 1 [info] <0.2192.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.2191.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:36:14.995 1 [error] <0.2191.1>@http2_client:handle_settings:822
gen_server <0.2191.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:36:14.996 1 [error] <0.2191.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2191.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:36:14.997 1 [error] <0.2192.1>@Undefined:Undefined:Undefined
gen_server <0.2192.1> terminated with reason: connection_down
2022-06-27 19:36:14.998 1 [error] <0.2192.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2192.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:36:14.998 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2192.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:36:14.999 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 19:36:14.999 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 19:36:14.999 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 19:36:15.001 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.2191.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "13.125.32.225",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5457>,socket\_mon =>  
#Ref<0.155928093.3973578754.64458>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.2192.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 19:36:15.001 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.2192.1>,connection\_down}

2022-06-27 19:36:23.292 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

2022-06-27 19:36:25.002 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:36:25.337 1 [info] <0.2195.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:36:25.338 1 [info] <0.2195.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.2194.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:36:25.666 1 [error] <0.2194.1>@http2_client:handle_settings:822
gen_server <0.2194.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:36:25.667 1 [error] <0.2194.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2194.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:36:25.668 1 [error] <0.2195.1>@Undefined:Undefined:Undefined
gen_server <0.2195.1> terminated with reason: connection_down
2022-06-27 19:36:25.668 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2195.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

2022-06-27 19:36:25.668 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 19:36:25.669 1 [error] <0.2195.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.2195.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:36:25.669 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:36:25.669 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:36:25.670 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2194.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{56, {<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "13.237.155.172",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5458>,socket\_mon => #Ref<0.155928093.3973578754.64499>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.2195.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 19:36:25.671 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst

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in setup state: Type: info, Msg: {'EXIT',<0.2195.1>,connection_down}
2022-06-27 19:36:33.442 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:36:35.672 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:36:35.762 1 [info] <0.2203.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:36:35.763 1 [info] <0.2203.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.2202.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:36:35.848 1 [error] <0.2202.1>@http2_client:handle_settings:822
gen_server <0.2202.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:36:35.850 1 [error] <0.2202.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2202.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:36:35.852 1 [error] <0.2203.1>@Undefined:Undefined:Undefined
gen_server <0.2203.1> terminated with reason: connection_down
2022-06-27 19:36:35.853 1 [error] <0.2203.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2203.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:36:35.855 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2203.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

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{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:36:35.855 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:36:35.856 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:36:35.856 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:36:35.860 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2202.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5459>,socket_mon =>
#Ref<0.155928093.3973578754.64528>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2203.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

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{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 19:36:35.861 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2203.1>,connection_down}
2022-06-27 19:36:36.723 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:36:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:36:36.724 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:36:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:36:36.725 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5291,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:36:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=50000000}
2022-06-27 19:36:41.949 1 [info] <0.1662.0>@blockchain_worker:start_sync:
{888,13} new block sync starting with Pid: <0.2208.1>, Ref:
#Ref<0.155928093.3974103041.87587>, Peer: "/p2p/
114JdAS6FF5mLDKrU2rr1rCJcuoQHKKtCWdRCkxTr1TNq7pNjbX" 2022-06-27
19:36:43.588 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 19:36:45.858 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:36:46.132 1 [info] <0.2213.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:36:46.134 1 [info] <0.2213.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.2212.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 19:36:46.397 1 [error] <0.2212.1>@http2_client:handle_settings:822
gen_server <0.2212.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:36:46.399 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2213.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:36:46.399 1 [error] <0.2212.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2212.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:36:46.399 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:36:46.400 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:36:46.400 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:36:46.400 1 [error] <0.2213.1>@Undefined:Undefined:Undefined
gen_server <0.2213.1> terminated with reason: connection_down
2022-06-27 19:36:46.400 1 [error] <0.2213.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2213.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:36:46.401 1 [warning]
```



<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2212.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"13.125.32.225">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "13.125.32.225",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5465>,socket\_mon => #Ref<0.155928093.3973578754.64558>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.2213.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}] 2022-06-27 19:36:46.401 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2213.1>,connection\_down} 2022-06-27 19:36:53.742 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833 2022-06-27 19:36:56.257 1 [info] <0.1657.0>@libp2p\_relay\_server:handle\_info: {172,5} Relay session with address "/p2p/112qt3y9cgwhxemSpjac1cEwPnGvwGnauupTozzQs3ynDh43hptT/p2p-circuit/p2p/11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv" closed with reason normal 2022-06-27 19:36:56.402 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "35.82.239.134": {gateway\_validators\_req\_v1\_pb,1} 2022-06-27 19:36:56.633 1 [info] <0.2229.1>@grpc\_client\_stream\_custom:init:

```
{131,9} init stream for RPC validators and type unary
2022-06-27 19:36:56.634 1 [info] <0.2229.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.2228.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:36:56.861 1 [error] <0.2228.1>@http2_client:handle_settings:822
gen_server <0.2228.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:36:56.864 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2229.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:36:56.865 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:36:56.865 1 [error] <0.2228.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2228.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:36:56.865 1 [error] <0.2229.1>@Undefined:Undefined:Undefined
gen_server <0.2229.1> terminated with reason: connection_down
```

2022-06-27 19:36:56.866 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:36:56.866 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:36:56.867 1 [error] <0.2229.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.2229.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:36:56.870 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2228.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "35.82.239.134",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5466>,socket\_mon => #Ref<0.155928093.3973578754.64605>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.2229.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}

2022-06-27 19:36:56.871 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2229.1>,connection\_down}

2022-06-27 19:36:58.783 1 [warning] <0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}

2022-06-27 19:37:01.303 1 [warning]

```
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:37:03.856 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:37:03.892 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:37:06.383 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:37:06.724 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:37:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:37:06.725 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:37:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:37:06.727 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5295,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:37:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:37:06.869 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:37:07.031 1 [info] <0.2240.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:37:07.032 1 [info] <0.2240.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.2239.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 19:37:07.395 1 [error] <0.2239.1>@http2_client:handle_settings:822
gen_server <0.2239.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:37:07.398 1 [error] <0.2239.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2239.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:37:07.399 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2240.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:37:07.399 1 [error] <0.2240.1>@Undefined:Undefined:Undefined
gen_server <0.2240.1> terminated with reason: connection_down
2022-06-27 19:37:07.399 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:37:07.400 1 [error] <0.2240.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2240.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:37:07.400 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:37:07.400 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:37:07.403 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.2239.1>,{function_clause,
[{{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.13.130.184">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5467>,socket_mon =>
#Ref<0.155928093.3973578754.64645>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2240.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:37:07.403 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2240.1>,connection_down}
2022-06-27 19:37:08.910 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:37:11.454 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:37:13.986 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:37:14.055 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:37:16.533 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
```

```
{error,retry}
2022-06-27 19:37:17.403 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:37:17.487 1 [info] <0.2243.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:37:17.489 1 [info] <0.2243.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.2242.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:37:17.562 1 [error] <0.2242.1>@http2_client:handle_settings:822
gen_server <0.2242.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:37:17.563 1 [error] <0.2242.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2242.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:37:17.563 1 [error] <0.2243.1>@Undefined:Undefined:Undefined
gen_server <0.2243.1> terminated with reason: connection_down
2022-06-27 19:37:17.564 1 [error] <0.2243.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2243.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:37:17.564 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2243.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:37:17.565 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:37:17.565 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:37:17.565 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:37:17.567 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2242.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"3.72.215.7">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5468>,socket_mon =>
#Ref<0.155928093.3973578754.64681>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2243.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]]}
```



2022-06-27 19:37:17.569 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.2243.1>,connection\_down}  
2022-06-27 19:37:19.060 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:37:21.583 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:37:21.676 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for  
peerbook <0.1638.0>  
2022-06-27 19:37:24.104 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:37:24.195 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:37:26.622 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:37:27.568 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "54.207.131.103":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:37:27.841 1 [info] <0.2248.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 19:37:27.842 1 [info] <0.2248.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"54.207.131.103">>,http\_connection => <0.2247.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 19:37:28.118 1 [error] <0.2247.1>@http2\_client:handle\_settings:822  
gen\_server <0.2247.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 19:37:28.120 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

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{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2248.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:37:28.121 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:37:28.122 1 [error] <0.2247.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2247.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:37:28.122 1 [error] <0.2248.1>@Undefined:Undefined:Undefined
gen_server <0.2248.1> terminated with reason: connection_down
2022-06-27 19:37:28.123 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:37:28.123 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:37:28.123 1 [error] <0.2248.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2248.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:37:28.127 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2247.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5469>,socket_mon =>
#Ref<0.155928093.3974103041.88820>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2248.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 19:37:28.127 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2248.1>,connection_down}
2022-06-27 19:37:29.143 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:37:31.672 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:37:34.213 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:37:34.337 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:37:36.729 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:37:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:37:36.729 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

<<"2022-06-27 19:37:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 19:37:36.733 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=5299,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 19:37:36 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 19:37:36.755 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:37:38.126 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.49.199.40":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:37:39.292 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:37:41.816 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:37:44.363 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:37:44.483 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:37:46.909 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:37:49.436 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:37:51.964 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:37:54.485 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:37:54.628 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:37:57.002 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay

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{error,retry}
2022-06-27 19:37:59.524 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:38:02.047 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:38:04.570 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:38:04.778 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:38:06.735 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:38:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:38:06.735 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:38:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:38:06.737 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5303,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:38:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:38:07.096 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:38:08.129 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{{gen_statem,loop_state_callback,11,[[{{file,"gen_statem.erl"},{line,1203}}]},
{{proc_lib,init_p_do_apply,3,[[{{file,"proc_lib.erl"},{line,226}}]]}}
```

2022-06-27 19:38:08.129 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:38:08.130 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2251.1>,timeout}

2022-06-27 19:38:08.130 1 [error] <0.2251.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.2251.1> with 0 neighbours exited with reason: timeout in gen\_server:init\_it/6 line 407

2022-06-27 19:38:09.619 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}

2022-06-27 19:38:12.137 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}

2022-06-27 19:38:14.669 1 [info] <0.1657.0>@libp2p\_relay\_server:init\_relay: {242,13} initiating relay with peer "/p2p/112JrtPqUBWN1VpJwB7At7X7UGWFCVmmTjVF8bra5zsRk51Ba6pp"

2022-06-27 19:38:14.935 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 19:38:18.131 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.132.190.192":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 19:38:19.310 1 [info] <0.2282.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 19:38:19.311 1 [info] <0.2282.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.132.190.192">>,http\_connection => <0.2281.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 19:38:19.470 1 [error] <0.2281.1>@http2\_client:handle\_settings:822  
gen\_server <0.2281.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:38:19.471 1 [error] <0.2281.1>@http2\_client:handle\_settings:822

```
CRASH REPORT Process <0.2281.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:38:19.472 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2282.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:38:19.472 1 [error] <0.2282.1>@Undefined:Undefined:Undefined
gen_server <0.2282.1> terminated with reason: connection_down
2022-06-27 19:38:19.472 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:38:19.472 1 [error] <0.2282.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2282.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:38:19.472 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:38:19.473 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:38:19.475 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2281.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5476>,socket_mon =>
#Ref<0.155928093.3973316611.168045>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2282.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:38:19.475 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2282.1>,connection_down}
2022-06-27 19:38:19.718 1 [info] <0.1657.0>@libp2p_transport_proxy:connect:
{38,5} init proxy with ["/p2p/
112dazKP4c4bEGdAXqomjhvxudfS73GueHXv6Gqq2UeEVpkr82PV","/p2p/
112JrtPqUBWN1VpJwB7At7X7UGWFCVmmTjVF8bra5zsRk51Ba6pp"]
2022-06-27 19:38:19.729 1 [error]
<0.1657.0>@libp2p_transport_proxy:connect_to:{69,13} failed to dial proxy server
"/p2p/112dazKP4c4bEGdAXqomjhvxudfS73GueHXv6Gqq2UeEVpkr82PV"
not_found
2022-06-27 19:38:19.731 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{165,13} could not initiate relay with
"/p2p/112JrtPqUBWN1VpJwB7At7X7UGWFCVmmTjVF8bra5zsRk51Ba6pp" [{"/
ip4/98.234.147.155/tcp/44158",timeout},{"p2p/
112dazKP4c4bEGdAXqomjhvxudfS73GueHXv6Gqq2UeEVpkr82PV/p2p-circuit/
p2p/
112JrtPqUBWN1VpJwB7At7X7UGWFCVmmTjVF8bra5zsRk51Ba6pp",fail_dial_proxy
}]
2022-06-27 19:38:22.253 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:38:24.793 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
```



```
{error,retry}
2022-06-27 19:38:25.078 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:38:27.323 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:38:29.476 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:38:29.559 1 [info] <0.2285.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:38:29.562 1 [info] <0.2285.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.2284.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:38:29.633 1 [error] <0.2284.1>@http2_client:handle_settings:822
gen_server <0.2284.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:38:29.634 1 [error] <0.2284.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2284.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:38:29.635 1 [error] <0.2285.1>@Undefined:Undefined:Undefined
gen_server <0.2285.1> terminated with reason: connection_down
2022-06-27 19:38:29.635 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2285.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]}],
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 19:38:29.635 1 [error] <0.2285.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2285.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:38:29.635 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:38:29.636 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:38:29.636 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:38:29.638 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2284.1>,{function_clause,
[{{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"3.72.215.7">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5477>,socket_mon =>
#Ref<0.155928093.3973578754.64761>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2285.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:38:29.638 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2285.1>,connection_down}
2022-06-27 19:38:29.842 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:38:32.365 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:38:34.887 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:38:35.205 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:38:36.729 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:38:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:38:36.730 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:38:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:38:36.731 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5307,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:38:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:38:37.415 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:38:39.639 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
```

```
{gateway_validators_req_v1_pb,1}
2022-06-27 19:38:39.722 1 [info] <0.2289.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:38:39.723 1 [info] <0.2289.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.2288.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:38:39.798 1 [error] <0.2288.1>@http2_client:handle_settings:822
gen_server <0.2288.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:38:39.799 1 [error] <0.2288.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2288.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:38:39.800 1 [error] <0.2289.1>@Undefined:Undefined:Undefined
gen_server <0.2289.1> terminated with reason: connection_down
2022-06-27 19:38:39.801 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2289.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:38:39.801 1 [error] <0.2289.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2289.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:38:39.801 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:38:39.801 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:38:39.802 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:38:39.803 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2288.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5478>,socket_mon =>
#Ref<0.155928093.3973578754.64779>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2289.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:38:39.803 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2289.1>,connection_down} 2022-06-27
19:38:39.945 1 [warning] <0.1657.0>@libp2p_relay_server:handle_info:{168,13}
```

could not initiate relay {error,retry}  
2022-06-27 19:38:42.463 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:38:44.984 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:38:45.355 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:38:47.514 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:38:49.804 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.220.227.216":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:38:50.042 1 [info] <0.2310.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 19:38:50.044 1 [info] <0.2310.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"52.220.227.216">>,http\_connection => <0.2309.1>,scheme =>  
<<"http">>,encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 19:38:50.060 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:38:50.275 1 [error] <0.2309.1>@http2\_client:handle\_settings:822  
gen\_server <0.2309.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 19:38:50.276 1 [error] <0.2309.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.2309.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

```
2022-06-27 19:38:50.277 1 [error] <0.2310.1>@Undefined:Undefined:Undefined
gen_server <0.2310.1> terminated with reason: connection_down
2022-06-27 19:38:50.277 1 [error] <0.2310.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2310.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:38:50.278 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2310.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:38:50.278 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:38:50.279 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:38:50.279 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:38:50.281 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2309.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.220.227.216",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5484>,socket_mon =>
#Ref<0.155928093.3973316611.168272>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2310.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:38:50.281 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2310.1>,connection_down}
2022-06-27 19:38:52.584 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:38:55.106 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:38:55.495 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:38:57.626 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:39:00.148 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:39:00.282 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:39:00.516 1 [info] <0.2319.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:39:00.518 1 [info] <0.2319.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.2318.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```



```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:39:00.742 1 [error] <0.2318.1>@http2_client:handle_settings:822
gen_server <0.2318.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:39:00.744 1 [error] <0.2318.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2318.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:39:00.744 1 [error] <0.2319.1>@Undefined:Undefined:Undefined
gen_server <0.2319.1> terminated with reason: connection_down
2022-06-27 19:39:00.745 1 [error] <0.2319.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2319.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:39:00.745 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2319.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:39:00.745 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:39:00.745 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

2022-06-27 19:39:00.746 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:39:00.747 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2318.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {56, {<<":authority">>,<<"44.229.159.157">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "44.229.159.157",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5485>,socket\_mon => #Ref<0.155928093.3973578754.64875>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.2319.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 19:39:00.748 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2319.1>,connection\_down}

2022-06-27 19:39:02.675 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}

2022-06-27 19:39:05.195 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}

2022-06-27 19:39:05.641 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

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2022-06-27 19:39:06.736 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:39:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:39:06.737 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:39:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:39:06.740 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5311,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:39:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:39:07.734 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:39:10.265 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:39:10.748 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:39:10.900 1 [warning]
<0.1644.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/"
ip4/18.228.124.125/tcp/2154": {exit,{normal,{gen_server,call,[<0.1781.1>,open]}}}
2022-06-27 19:39:10.979 1 [info] <0.2336.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:39:10.980 1 [info] <0.2336.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.2334.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:39:11.207 1 [error] <0.2334.1>@http2_client:handle_settings:822
gen_server <0.2334.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:39:11.209 1 [error] <0.2334.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2334.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:39:11.211 1 [error] <0.2336.1>@Undefined:Undefined:Undefined
gen_server <0.2336.1> terminated with reason: connection_down
2022-06-27 19:39:11.212 1 [error] <0.2336.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2336.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:39:11.213 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2336.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:39:11.213 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:39:11.214 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:39:11.215 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:39:11.218 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2334.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"35.82.239.134">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5487>,socket_mon =>
#Ref<0.155928093.3973578754.64935>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2336.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:39:11.219 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2336.1>,connection_down} 2022-06-27
19:39:12.790 1 [warning] <0.1657.0>@libp2p_relay_server:handle_info:{168,13}
could not initiate relay {error,retry}
2022-06-27 19:39:15.318 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:39:15.782 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:39:17.841 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:39:20.352 1 [info] <0.1657.0>@libp2p_relay_server:init_relay:
{242,13} initiating relay with peer "/p2p/
112Qg4ZH5av6ikRSkuUGLAQt1bJSaY1mGfQZyXFicCFBzEf7daJR"
2022-06-27 19:39:21.218 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

unary request via new connection to ip "3.38.70.101":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:39:25.390 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{165,13} could not initiate relay with  
"/p2p/112Qg4ZH5av6ikRSkuUGLAQt1bJSaY1mGfQZyXFicCFBzEf7daJR" [{"/  
ip4/217.216.130.146/tcp/44158",timeout}]  
2022-06-27 19:39:25.945 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:39:27.918 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:39:30.438 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:39:31.805 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/  
11hDkLs6rDEisadDWZGjL22sCBjY7Zqai4j32xEV61nvCQKKZss" informed us of our  
observed address "/ip4/80.77.186.186/tcp/57541"  
2022-06-27 19:39:32.730 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/  
11DX6dfEwSnkSkTEWhAsRL1qqzJRTdGj3Jb9a7UkrBL55vhVjiJ" informed us of our  
observed address "/ip4/80.77.186.186/tcp/64101"  
2022-06-27 19:39:32.959 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:39:35.479 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:39:36.088 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:39:36.734 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 19:39:36 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 19:39:36.735 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 19:39:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 19:39:36.737 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5315,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:39:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:39:37.996 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:39:40.517 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:39:43.037 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:39:45.567 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:39:46.229 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:39:48.088 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:39:50.610 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 19:39:51.223 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:39:51.224 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:39:51.225 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2354.1>,timeout}
2022-06-27 19:39:51.226 1 [error] <0.2354.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.2354.1> with 0 neighbours exited with reason:  
timeout in gen\_server:init\_it/6 line 407  
2022-06-27 19:39:53.147 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:39:55.671 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 19:39:56.368 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:39:58.202 1 [info] <0.1657.0>@libp2p\_relay\_server:init\_relay:  
{242,13} initiating relay with peer "/p2p/  
11xqC5ndjdoDaq73tqdc4LoMMztLNPjChYRTX2tbsWc9YHufcLf"  
2022-06-27 19:39:59.121 1 [info] <0.1657.0>@libp2p\_relay\_server:handle\_info:  
{162,13} relay started successfully with "/p2p/  
11xqC5ndjdoDaq73tqdc4LoMMztLNPjChYRTX2tbsWc9YHufcLf"  
2022-06-27 19:39:59.222 1 [info] <0.1657.0>@libp2p\_relay\_server:handle\_call:  
{111,5} inserting new listener blockchain\_swarm, "/p2p/  
11xqC5ndjdoDaq73tqdc4LoMMztLNPjChYRTX2tbsWc9YHufcLf/p2p-circuit/p2p/  
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNvidMW72SydYmoiT2VXv", <0.2407.1>  
2022-06-27 19:39:59.253 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/  
11xqC5ndjdoDaq73tqdc4LoMMztLNPjChYRTX2tbsWc9YHufcLf" informed us of  
our observed address "/ip4/80.77.186.186/tcp/59666"  
2022-06-27 19:40:01.225 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.237.155.172":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:40:01.559 1 [info] <0.2414.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 19:40:01.560 1 [info] <0.2414.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"13.237.155.172">>,http\_connection => <0.2413.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 19:40:01.888 1 [error] <0.2413.1>@http2\_client:handle\_settings:822  
gen\_server <0.2413.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,



```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:40:01.889 1 [error] <0.2413.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2413.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:40:01.890 1 [error] <0.2414.1>@Undefined:Undefined:Undefined
gen_server <0.2414.1> terminated with reason: connection_down
2022-06-27 19:40:01.890 1 [error] <0.2414.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2414.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:40:01.890 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2414.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:40:01.891 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:40:01.891 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:40:01.891 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:40:01.893 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2413.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"13.237.155.172">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5511>,socket_mon =>
#Ref<0.155928093.3973578754.65283>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2414.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:40:01.893 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2414.1>,connection_down}
2022-06-27 19:40:06.522 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:40:06.735 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:40:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:40:06.736 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:40:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:40:06.739 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5319,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
```

```
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:40:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:40:11.893 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:40:12.225 1 [info] <0.2427.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:40:12.226 1 [info] <0.2427.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.2426.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:40:12.551 1 [error] <0.2426.1>@http2_client:handle_settings:822
gen_server <0.2426.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:40:12.552 1 [error] <0.2426.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2426.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:40:12.552 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2427.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
```

```
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:40:12.553 1 [error] <0.2427.1>@Undefined:Undefined:Undefined
gen_server <0.2427.1> terminated with reason: connection_down
2022-06-27 19:40:12.553 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:40:12.553 1 [error] <0.2427.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2427.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:40:12.553 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:40:12.553 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:40:12.555 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2426.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5512>,socket_mon =>
#Ref<0.155928093.3973578754.65321>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2427.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[[{file,"gen_server.erl"},{line,695}]],
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 19:40:12.555 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2427.1>,connection_down}
2022-06-27 19:40:16.675 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:40:22.555 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:40:22.832 1 [info] <0.2435.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:40:22.833 1 [info] <0.2435.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.2434.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:40:23.108 1 [error] <0.2434.1>@http2_client:handle_settings:822
gen_server <0.2434.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:40:23.109 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2435.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 19:40:23.109 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:40:23.110 1 [error] <0.2434.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2434.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:40:23.110 1 [error] <0.2435.1>@Undefined:Undefined:Undefined
gen_server <0.2435.1> terminated with reason: connection_down
2022-06-27 19:40:23.111 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:40:23.111 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:40:23.111 1 [error] <0.2435.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2435.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:40:23.114 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2434.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5513>,socket_mon =>
#Ref<0.155928093.3973578754.65360>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2435.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:40:23.115 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2435.1>,connection_down}
2022-06-27 19:40:26.825 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:40:29.115 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 3,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAfHXnAGchAOHDZxcLYWjPLDc6b0ma6JWpctZa7wKavOalQOIE4L
Eb5Q2EaUzmQ==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
-462,<<"freq">> => 867.1,<<"jver">> => 1,<<"lsnr">> => -17.0,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -112,<<"rssi">>
=> -129,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 1690147092}}] from
12291671073248440251 on 35152
2022-06-27 19:40:33.114 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:40:33.451 1 [info] <0.2440.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:40:33.452 1 [info] <0.2440.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.2439.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:40:33.782 1 [error] <0.2439.1>@http2_client:handle_settings:822
gen_server <0.2439.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 19:40:33.783 1 [error] <0.2439.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2439.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:40:33.785 1 [error] <0.2440.1>@Undefined:Undefined:Undefined
gen_server <0.2440.1> terminated with reason: connection_down
2022-06-27 19:40:33.785 1 [error] <0.2440.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2440.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:40:33.786 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2440.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:40:33.787 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:40:33.788 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:40:33.789 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:40:33.790 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2439.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```



```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5514>,socket_mon =>
#Ref<0.155928093.3973578754.65405>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2440.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:40:33.791 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2440.1>,connection_down}
2022-06-27 19:40:36.741 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:40:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:40:36.742 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:40:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:40:36.745 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5322,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:40:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:40:36.982 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 19:40:43.792 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:40:43.876 1 [info] <0.2451.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:40:43.877 1 [info] <0.2451.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.2450.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:40:43.962 1 [error] <0.2450.1>@http2_client:handle_settings:822
gen_server <0.2450.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:40:43.964 1 [error] <0.2450.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2450.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:40:43.964 1 [error] <0.2451.1>@Undefined:Undefined:Undefined
gen_server <0.2451.1> terminated with reason: connection_down
2022-06-27 19:40:43.964 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2451.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 19:40:43.965 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:40:43.965 1 [error] <0.2451.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2451.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:40:43.965 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:40:43.965 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:40:43.968 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2450.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.122.38.248">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5515>,socket_mon =>
#Ref<0.155928093.3973578754.65455>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2451.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}}
2022-06-27 19:40:43.968 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2451.1>,connection\_down}  
2022-06-27 19:40:47.126 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:40:53.968 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.137.92.200":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:40:54.128 1 [info] <0.2455.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 19:40:54.130 1 [info] <0.2455.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.137.92.200">>,http\_connection => <0.2454.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 19:40:54.284 1 [error] <0.2454.1>@http2\_client:handle\_settings:822 gen\_server <0.2454.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 19:40:54.286 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.2455.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]]  
2022-06-27 19:40:54.286 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New

Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 19:40:54.286 1 [error] <0.2454.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.2454.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:40:54.287 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:40:54.287 1 [error] <0.2455.1>@Undefined:Undefined:Undefined gen\_server <0.2455.1> terminated with reason: connection\_down

2022-06-27 19:40:54.287 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:40:54.287 1 [error] <0.2455.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.2455.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:40:54.288 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2454.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {54, {<<":authority">>,<<"3.137.92.200">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.137.92.200",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5516>,socket\_mon => #Ref<0.155928093.3973578754.65604>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.2455.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}]}}

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 19:40:54.289 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2455.1>,connection_down}
2022-06-27 19:40:57.276 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:41:04.290 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:41:04.569 1 [info] <0.2465.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:41:04.571 1 [info] <0.2465.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.2462.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:41:04.845 1 [error] <0.2462.1>@http2_client:handle_settings:822
gen_server <0.2462.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:41:04.849 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2465.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:41:04.850 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:41:04.851 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:41:04.852 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:41:04.852 1 [error] <0.2462.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2462.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:41:04.855 1 [error] <0.2465.1>@Undefined:Undefined:Undefined
gen_server <0.2465.1> terminated with reason: connection_down
2022-06-27 19:41:04.855 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2462.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5517>,socket_mon =>
#Ref<0.155928093.3973578754.65760>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2465.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:41:04.856 1 [error] <0.2465.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2465.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:41:04.856 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2465.1>,connection_down} 2022-06-27
19:41:06.746 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:41:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:41:06.746 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:41:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:41:06.748 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5326,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:41:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:41:07.422 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:41:14.855 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:41:15.130 1 [info] <0.2493.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:41:15.133 1 [info] <0.2493.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.2492.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```



```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:41:15.400 1 [error] <0.2492.1>@http2_client:handle_settings:822
gen_server <0.2492.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:41:15.401 1 [error] <0.2492.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2492.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:41:15.402 1 [error] <0.2493.1>@Undefined:Undefined:Undefined
gen_server <0.2493.1> terminated with reason: connection_down
2022-06-27 19:41:15.402 1 [error] <0.2493.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2493.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:41:15.403 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2493.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:41:15.403 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:41:15.403 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:41:15.404 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

2022-06-27 19:41:15.405 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2492.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5519>,socket_mon =>
#Ref<0.155928093.3973578754.65973>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2493.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 19:41:15.406 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2493.1>,connection_down}
```

2022-06-27 19:41:17.568 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 19:41:25.405 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
```

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 19:41:26.753 1 [info] <0.2502.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 19:41:26.754 1 [info] <0.2502.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"3.104.32.11">>,http_connection => <0.2501.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:41:27.079 1 [error] <0.2501.1>@http2_client:handle_settings:822
gen_server <0.2501.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:41:27.081 1 [error] <0.2501.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2501.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:41:27.082 1 [error] <0.2502.1>@Undefined:Undefined:Undefined
gen_server <0.2502.1> terminated with reason: connection_down
2022-06-27 19:41:27.083 1 [error] <0.2502.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2502.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:41:27.083 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2502.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:41:27.083 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:41:27.084 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 19:41:27.084 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:41:27.085 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2501.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{53, {<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.104.32.11",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5520>,socket\_mon => #Ref<0.155928093.3973578754.66100>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.2502.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 19:41:27.086 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2502.1>,connection\_down}  
2022-06-27 19:41:27.725 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:41:36.737 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>

```
<<"2022-06-27 19:41:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:41:36.738 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:41:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:41:36.741 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5330,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:41:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:41:37.087 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:41:37.422 1 [info] <0.2506.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:41:37.423 1 [info] <0.2506.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.2504.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:41:37.771 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,<0.2506.1>,{rcv,10000},infinity}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:41:37.771 1 [error] <0.2504.1>@http2_client:handle_settings:822
```

```
gen_server <0.2504.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:41:37.771 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:41:37.773 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:41:37.773 1 [error] <0.2504.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2504.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:41:37.773 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:41:37.773 1 [error] <0.2506.1>@Undefined:Undefined:Undefined
gen_server <0.2506.1> terminated with reason: connection_down
2022-06-27 19:41:37.776 1 [error] <0.2506.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2506.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:41:37.779 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2504.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5521>,socket_mon =>
```

```
#Ref<0.155928093.3973578754.66143>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2506.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 19:41:37.780 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2506.1>,connection_down} 2022-06-27
19:41:37.865 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 19:41:47.776 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:41:48.011 1 [info] <0.2518.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:41:48.013 1 [info] <0.2518.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.2517.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:41:48.018 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:41:48.236 1 [error] <0.2517.1>@http2_client:handle_settings:822
gen_server <0.2517.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:41:48.237 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2518.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[[file,"gen_server.erl"],{line,247}]],
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]},{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]},
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]},
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 19:41:48.237 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:41:48.237 1 [error] <0.2517.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2517.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:41:48.238 1 [error] <0.2518.1>@Undefined:Undefined:Undefined
gen_server <0.2518.1> terminated with reason: connection_down
2022-06-27 19:41:48.238 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:41:48.238 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:41:48.238 1 [error] <0.2518.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2518.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:41:48.239 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2517.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```



```
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5522>,socket_mon =>
#Ref<0.155928093.3973316611.169812>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2518.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 19:41:48.239 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2518.1>,connection_down}
2022-06-27 19:41:58.165 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:41:58.240 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:41:58.518 1 [info] <0.2521.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:41:58.520 1 [info] <0.2521.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.2520.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:41:58.789 1 [error] <0.2520.1>@http2_client:handle_settings:822
gen_server <0.2520.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:41:58.789 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2521.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:41:58.789 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:41:58.789 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:41:58.789 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:41:58.790 1 [error] <0.2520.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2520.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:41:58.790 1 [error] <0.2521.1>@Undefined:Undefined:Undefined
gen_server <0.2521.1> terminated with reason: connection_down
2022-06-27 19:41:58.791 1 [error] <0.2521.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2521.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:41:58.791 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2520.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.39.165.144">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5523>,socket_mon =>
#Ref<0.155928093.3973578754.66225>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2521.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:41:58.791 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2521.1>,connection_down}
2022-06-27 19:42:04.433 1 [notice]
<0.2524.1>@libp2p_multistream_client:negotiate_handler:{14,13} Client
handshake failed for "gossip/1.0.2": closed
2022-06-27 19:42:04.434 1 [warning]
<0.1639.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
112ek4k6EjgSGuA8mtR8n3oEbQf9CbZjrQfjDnykUtYp8M8Ywo7": closed
2022-06-27 19:42:06.749 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:42:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:42:06.750 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:42:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:42:06.753 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5334,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:42:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:42:08.315 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:42:08.791 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:42:09.063 1 [info] <0.2529.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:42:09.066 1 [info] <0.2529.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.2528.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:42:09.327 1 [error] <0.2528.1>@http2_client:handle_settings:822
gen_server <0.2528.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:42:09.328 1 [error] <0.2528.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2528.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:42:09.328 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2529.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 19:42:09.328 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:42:09.329 1 [error] <0.2529.1>@Undefined:Undefined:Undefined
gen_server <0.2529.1> terminated with reason: connection_down
2022-06-27 19:42:09.329 1 [error] <0.2529.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2529.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:42:09.329 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:42:09.329 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:42:09.331 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2528.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"3.39.165.144">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5524>,socket_mon =>
#Ref<0.155928093.3973578754.66282>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2529.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}}
2022-06-27 19:42:09.332 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2529.1>,connection_down} 2022-06-27
19:42:18.459 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 19:42:19.332 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:42:20.501 1 [info] <0.2546.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:42:20.502 1 [info] <0.2546.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.2545.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:42:20.657 1 [error] <0.2545.1>@http2_client:handle_settings:822
gen_server <0.2545.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:42:20.659 1 [error] <0.2545.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2545.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:42:20.659 1 [error] <0.2546.1>@Undefined:Undefined:Undefined
gen_server <0.2546.1> terminated with reason: connection_down
2022-06-27 19:42:20.659 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.2546.1>,{rcv,10000},infinity]}}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:42:20.659 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:42:20.659 1 [error] <0.2546.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2546.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:42:20.660 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:42:20.660 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:42:20.662 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2545.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5525>,socket_mon =>
```

```
#Ref<0.155928093.3973578754.66341>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2546.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 19:42:20.662 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2546.1>,connection_down} 2022-06-27
19:42:21.677 1 [info] <0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5}
dropping target for peerbook <0.1641.0>
2022-06-27 19:42:28.602 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:42:30.662 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:42:30.993 1 [info] <0.2557.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:42:30.996 1 [info] <0.2557.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.2556.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:42:31.319 1 [error] <0.2556.1>@http2_client:handle_settings:822
gen_server <0.2556.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:42:31.321 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2557.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```



```
[{file,"gen_server.erl"},{line,247}]],
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:42:31.321 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:42:31.321 1 [error] <0.2556.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2556.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:42:31.321 1 [error] <0.2557.1>@Undefined:Undefined:Undefined
gen_server <0.2557.1> terminated with reason: connection_down
2022-06-27 19:42:31.322 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:42:31.322 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:42:31.322 1 [error] <0.2557.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2557.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:42:31.323 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2556.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.211.55.217">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5526>,socket_mon =>
#Ref<0.155928093.3973578754.66382>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2557.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}}
2022-06-27 19:42:31.323 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2557.1>,connection_down}
2022-06-27 19:42:36.744 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:42:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:42:36.745 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:42:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:42:36.746 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5338,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:42:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:42:38.745 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:42:41.325 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
```

```
{gateway_validators_req_v1_pb,1}
2022-06-27 19:42:41.603 1 [info] <0.2560.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:42:41.605 1 [info] <0.2560.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.2559.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:42:41.876 1 [error] <0.2559.1>@http2_client:handle_settings:822
gen_server <0.2559.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:42:41.877 1 [error] <0.2559.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2559.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:42:41.880 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2560.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:42:41.880 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 19:42:41.881 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 19:42:41.881 1 [error] <0.2560.1>@Undefined:Undefined:Undefined gen\_server <0.2560.1> terminated with reason: connection\_down  
2022-06-27 19:42:41.881 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:42:41.882 1 [error] <0.2560.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.2560.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:42:41.883 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2559.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}]}},host => "13.125.32.225",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5527>,socket\_mon => #Ref<0.155928093.3973578754.66439>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.2560.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 19:42:41.883 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2560.1>,connection\_down}  
2022-06-27 19:42:48.898 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:42:51.884 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:42:52.115 1 [info] <0.2573.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:42:52.116 1 [info] <0.2573.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.2572.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:42:52.344 1 [error] <0.2572.1>@http2_client:handle_settings:822
gen_server <0.2572.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:42:52.343 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2573.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:42:52.344 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:42:52.345 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:42:52.345 1 [error] <0.2572.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2572.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:42:52.345 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:42:52.345 1 [error] <0.2573.1>@Undefined:Undefined:Undefined
gen_server <0.2573.1> terminated with reason: connection_down
2022-06-27 19:42:52.345 1 [error] <0.2573.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2573.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:42:52.346 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2572.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5528>,socket_mon =>
#Ref<0.155928093.3973578754.66512>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2573.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 19:42:52.347 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2573.1>,connection_down}
2022-06-27 19:42:59.052 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:43:02.348 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:43:02.628 1 [info] <0.2576.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:43:02.630 1 [info] <0.2576.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.2575.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:43:02.898 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2576.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:43:02.898 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:43:02.898 1 [error] <0.2575.1>@http2_client:handle_settings:822
gen_server <0.2575.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:43:02.899 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:43:02.899 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:43:02.899 1 [error] <0.2575.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2575.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:43:02.900 1 [error] <0.2576.1>@Undefined:Undefined:Undefined
gen_server <0.2576.1> terminated with reason: connection_down
2022-06-27 19:43:02.900 1 [error] <0.2576.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2576.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:43:02.902 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2575.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5529>,socket_mon =>
#Ref<0.155928093.3973578754.66552>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2576.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```



```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 19:43:02.903 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2576.1>,connection_down}
2022-06-27 19:43:06.744 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:43:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:43:06.745 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:43:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:43:06.746 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5342,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:43:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:43:09.192 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:43:09.984 1 [info] <0.1636.0>@libp2p_peerbook:notify_peers:
{726,5} gossiping out 4 notify peers
2022-06-27 19:43:12.902 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:43:13.071 1 [info] <0.2580.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:43:13.072 1 [info] <0.2580.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.2579.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]}],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:43:13.234 1 [error] <0.2579.1>@http2_client:handle_settings:822
gen_server <0.2579.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:43:13.237 1 [error] <0.2579.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2579.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:43:13.240 1 [error] <0.2580.1>@Undefined:Undefined:Undefined
gen_server <0.2580.1> terminated with reason: connection_down
2022-06-27 19:43:13.241 1 [error] <0.2580.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2580.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:43:13.241 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2580.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:43:13.242 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:43:13.243 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:43:13.243 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 19:43:13.248 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2579.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5530>,socket_mon =>
#Ref<0.155928093.3973578754.66644>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2580.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:43:13.248 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2580.1>,connection_down}
2022-06-27 19:43:16.965 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 6,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAEwCzRKAKwEAOubESo47d6FVdhSUcbxz9FpNQC8ZQQq+wcQbTZkls
SdpFb/x7m/tw==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
83,<<"freq">> => 867.7,<<"jver">> => 1,<<"lsnr">> => -15.5,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -112,<<"rssiis">>
=> -127,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 1857999055}]} from
12291671073248440251 on 35152
2022-06-27 19:43:19.331 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833

2022-06-27 19:43:23.246 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.122.38.248":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 19:43:23.330 1 [info] <0.2584.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 19:43:23.332 1 [info] <0.2584.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"3.122.38.248">>,http\_connection => <0.2583.1>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}},name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 19:43:23.406 1 [error] <0.2583.1>@http2\_client:handle\_settings:822 gen\_server <0.2583.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 19:43:23.407 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.2584.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},

{miner\_poc\_grpc\_client\_statem,setup,3,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},

{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}

2022-06-27 19:43:23.408 1 [error] <0.2583.1>@http2\_client:handle\_settings:822

CRASH REPORT Process <0.2583.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

```
2022-06-27 19:43:23.408 1 [error] <0.2584.1>@Undefined:Undefined:Undefined
gen_server <0.2584.1> terminated with reason: connection_down
2022-06-27 19:43:23.408 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:43:23.409 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:43:23.409 1 [error] <0.2584.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2584.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:43:23.409 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:43:23.411 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2583.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.122.38.248">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5531>,socket_mon =>
#Ref<0.155928093.3973578754.66699>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2584.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 19:43:23.411 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2584.1>,connection\_down}

2022-06-27 19:43:29.485 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 19:43:33.412 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.215.75.202":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 19:43:33.649 1 [info] <0.2587.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 19:43:33.650 1 [info] <0.2587.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"13.215.75.202">>,http\_connection => <0.2586.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{},name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 19:43:33.882 1 [error] <0.2586.1>@http2\_client:handle\_settings:822 gen\_server <0.2586.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:43:33.883 1 [error] <0.2586.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.2586.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:43:33.883 1 [error] <0.2587.1>@Undefined:Undefined:Undefined gen\_server <0.2587.1> terminated with reason: connection\_down

2022-06-27 19:43:33.883 1 [error] <0.2587.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.2587.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:43:33.884 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.2587.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2,

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 19:43:33.884 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:43:33.885 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:43:33.885 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:43:33.887 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2586.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5532>,socket_mon =>
#Ref<0.155928093.3973316611.170465>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2587.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:43:33.888 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2587.1>,connection_down}
2022-06-27 19:43:36.747 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:43:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:43:36.747 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:43:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:43:36.748 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5346,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:43:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:43:39.639 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:43:43.888 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:43:44.169 1 [info] <0.2590.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:43:44.172 1 [info] <0.2590.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.2589.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```



```
2022-06-27 19:43:44.796 1 [error] <0.2589.1>@http2_client:handle_settings:822
gen_server <0.2589.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:43:44.796 1 [error] <0.2589.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2589.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:43:44.797 1 [error] <0.2590.1>@Undefined:Undefined:Undefined
gen_server <0.2590.1> terminated with reason: connection_down
2022-06-27 19:43:44.798 1 [error] <0.2590.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2590.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:43:44.798 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2590.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:43:44.799 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:43:44.799 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:43:44.799 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:43:44.801 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.2589.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"18.230.8.198">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5533>,socket_mon =>
#Ref<0.155928093.3973578754.66787>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2590.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:43:44.802 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2590.1>,connection_down} 2022-06-27
19:43:46.644 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"rxpk">> => [#{<<"chan">> => 2,<<"codr">> =>
<<"4/5">>,<<"data">> =>
<<"AE4AAPB+1bNwtDIAACBX+YwNxxZ2HKw=">>,<<"datr">> =>
<<"SF7BW125">>,<<"foff">> => 7316,<<"freq">> => 868.5,<<"jver">> =>
1,<<"lsnr">> => -9.0,<<"mid">> => 8,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 1,<<"rssi">> => -108,<<"rssid">> => -117,<<"size">> => 23,<<"stat">> =>
1,<<"tmst">> => 1887686480}}] from 12291671073248440251 on 35152
2022-06-27 19:43:49.781 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:43:54.802 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
```

```
{gateway_validators_req_v1_pb,1}
2022-06-27 19:43:55.080 1 [info] <0.2593.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:43:55.082 1 [info] <0.2593.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.2592.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:43:55.354 1 [error] <0.2592.1>@http2_client:handle_settings:822
gen_server <0.2592.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:43:55.356 1 [error] <0.2592.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2592.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:43:55.358 1 [error] <0.2593.1>@Undefined:Undefined:Undefined
gen_server <0.2593.1> terminated with reason: connection_down
2022-06-27 19:43:55.359 1 [error] <0.2593.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2593.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:43:55.360 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2593.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 19:43:55.361 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:43:55.362 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:43:55.362 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:43:55.365 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2592.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5534>,socket_mon =>
#Ref<0.155928093.3973578754.66827>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2593.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:43:55.366 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2593.1>,connection_down}
2022-06-27 19:43:59.918 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:44:05.365 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:44:05.699 1 [info] <0.2596.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:44:05.701 1 [info] <0.2596.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.2595.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:44:06.024 1 [error] <0.2595.1>@http2_client:handle_settings:822
gen_server <0.2595.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:44:06.028 1 [error] <0.2595.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2595.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:44:06.028 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2596.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 19:44:06.028 1 [error] <0.2596.1>@Undefined:Undefined:Undefined
gen_server <0.2596.1> terminated with reason: connection_down
2022-06-27 19:44:06.029 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:44:06.029 1 [error] <0.2596.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2596.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:44:06.030 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:44:06.030 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:44:06.033 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2595.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.211.55.217">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5535>,socket_mon =>
#Ref<0.155928093.3973578754.66890>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2596.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 19:44:06.034 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2596.1>,connection_down}
2022-06-27 19:44:06.745 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:44:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:44:06.746 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:44:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:44:06.747 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5350,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:44:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:44:10.062 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:44:12.360 1 [info] <0.1662.0>@blockchain_worker:start_sync:
{888,13} new block sync starting with Pid: <0.2604.1>, Ref:
#Ref<0.155928093.3974103041.97558>, Peer: "/p2p/
1122GijEo5G8PqbU3fBNLL2giq4QowsfYPwddwZu5nuLMCT2vccs"
2022-06-27 19:44:13.720 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
1122GijEo5G8PqbU3fBNLL2giq4QowsfYPwddwZu5nuLMCT2vccs" informed us of
our observed address "/ip4/80.77.186.186/tcp/63759"
2022-06-27 19:44:16.033 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:44:16.194 1 [info] <0.2668.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:44:16.196 1 [info] <0.2668.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.2661.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:44:16.352 1 [error] <0.2661.1>@http2_client:handle_settings:822
gen_server <0.2661.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:44:16.354 1 [error] <0.2661.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2661.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:44:16.355 1 [error] <0.2668.1>@Undefined:Undefined:Undefined
gen_server <0.2668.1> terminated with reason: connection_down
2022-06-27 19:44:16.356 1 [error] <0.2668.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2668.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:44:16.356 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2668.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:44:16.356 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:44:16.357 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:44:16.357 1 [warning]
```



<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:44:16.358 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2661.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.131.232.233",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5548>,socket\_mon => #Ref<0.155928093.3973578754.67287>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.2668.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 19:44:16.358 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2668.1>,connection\_down}  
2022-06-27 19:44:20.205 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:44:26.359 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.230.8.198":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:44:26.641 1 [info] <0.2682.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 19:44:26.642 1 [info] <0.2682.1>@grpc\_client\_stream\_custom:init:

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.2681.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:44:26.914 1 [error] <0.2681.1>@http2_client:handle_settings:822
gen_server <0.2681.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:44:26.915 1 [error] <0.2681.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2681.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:44:26.916 1 [error] <0.2682.1>@Undefined:Undefined:Undefined
gen_server <0.2682.1> terminated with reason: connection_down
2022-06-27 19:44:26.916 1 [error] <0.2682.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2682.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:44:26.917 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2682.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:44:26.917 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 19:44:26.918 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:44:26.918 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:44:26.921 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2681.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5549>,socket_mon =>
#Ref<0.155928093.3973578754.67481>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2682.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:44:26.922 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2682.1>,connection_down}
2022-06-27 19:44:30.349 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:44:36.752 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
```

```
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:44:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:44:36.752 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:44:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:44:36.753 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5354,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:44:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:44:36.921 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:44:37.090 1 [info] <0.2685.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:44:37.092 1 [info] <0.2685.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.2684.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:44:37.460 1 [error] <0.2684.1>@http2_client:handle_settings:822
gen_server <0.2684.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:44:37.464 1 [error] <0.2684.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2684.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:44:37.464 1 [error] <0.2685.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.2685.1> terminated with reason: connection_down
2022-06-27 19:44:37.465 1 [error] <0.2685.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2685.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:44:37.465 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2685.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:44:37.466 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:44:37.467 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:44:37.467 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:44:37.469 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2684.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5550>,socket_mon =>
#Ref<0.155928093.3974103041.98285>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2685.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:44:37.469 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2685.1>,connection_down}
2022-06-27 19:44:40.495 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:44:47.470 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:44:47.751 1 [info] <0.2688.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:44:47.753 1 [info] <0.2688.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.2687.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:44:48.028 1 [error] <0.2687.1>@http2_client:handle_settings:822
gen_server <0.2687.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:44:48.029 1 [error] <0.2687.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2687.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:44:48.029 1 [error] <0.2688.1>@Undefined:Undefined:Undefined
gen_server <0.2688.1> terminated with reason: connection_down
2022-06-27 19:44:48.030 1 [error] <0.2688.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2688.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:44:48.030 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2688.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:44:48.031 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:44:48.031 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:44:48.031 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:44:48.033 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2687.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5551>,socket_mon =>
#Ref<0.155928093.3973578754.67569>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2688.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 19:44:48.033 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2688.1>,connection_down}
2022-06-27 19:44:50.648 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:44:53.712 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 3,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAFepryDAEZ5AHMCKklvv03luUZnHcu0awn3U5yp1emCPRDpLtLGcH5n
1ZUGM0AdAg==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
355,<<"freq">> => 867.1,<<"jver">> => 1,<<"lsnr">> => -15.8,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -112,<<"rssiis">>
=> -127,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 1954747784}}] from
12291671073248440251 on 35152
2022-06-27 19:44:58.034 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:44:58.365 1 [info] <0.2691.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:44:58.367 1 [info] <0.2691.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.2690.1>,scheme =>
```



```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:44:58.694 1 [error] <0.2690.1>@http2_client:handle_settings:822
gen_server <0.2690.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:44:58.697 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2691.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:44:58.698 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:44:58.698 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:44:58.699 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:44:58.699 1 [error] <0.2690.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2690.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:44:58.699 1 [error] <0.2691.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.2691.1> terminated with reason: connection_down
2022-06-27 19:44:58.700 1 [error] <0.2691.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2691.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:44:58.702 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2690.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5552>,socket_mon =>
#Ref<0.155928093.3974103041.98688>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2691.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]}}
2022-06-27 19:44:58.703 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2691.1>,connection_down}
2022-06-27 19:45:00.805 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:45:06.753 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:45:06 GMT">>,<<"txnb">> => 0}} from
```

```
12291671073248440251 on 35152
2022-06-27 19:45:06.753 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:45:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:45:06.754 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5358,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:45:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:45:08.702 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:45:09.038 1 [info] <0.2695.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:45:09.039 1 [info] <0.2695.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.2694.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:45:09.371 1 [error] <0.2694.1>@http2_client:handle_settings:822
gen_server <0.2694.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:45:09.372 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2695.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:45:09.372 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:45:09.372 1 [error] <0.2694.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2694.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:45:09.373 1 [error] <0.2695.1>@Undefined:Undefined:Undefined
gen_server <0.2695.1> terminated with reason: connection_down
2022-06-27 19:45:09.373 1 [error] <0.2695.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2695.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:45:09.374 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:45:09.374 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:45:09.376 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2694.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5553>,socket_mon =>
```

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#Ref<0.155928093.3974103041.98876>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2695.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:45:09.376 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2695.1>,connection_down} 2022-06-27
19:45:10.956 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 19:45:14.110 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 19:45:15.630 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 3,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAGqffmHAeffACfCWzco8UedgBkWGF+1qkbFSdc8lVQWNIS6dry3neDF
W8hXdJeyrw==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
-263,<<"freq">> => 867.1,<<"jver">> => 1,<<"lsnr">> => -2.0,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -109,<<"rssi">>
=> -112,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 1976669013}}} from
12291671073248440251 on 35152
2022-06-27 19:45:19.377 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:45:19.615 1 [info] <0.2704.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:45:19.617 1 [info] <0.2704.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.2703.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:45:19.851 1 [error] <0.2703.1>@http2_client:handle_settings:822
```

```
gen_server <0.2703.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:45:19.855 1 [error] <0.2703.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2703.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:45:19.856 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2704.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:45:19.856 1 [error] <0.2704.1>@Undefined:Undefined:Undefined
gen_server <0.2704.1> terminated with reason: connection_down
2022-06-27 19:45:19.857 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:45:19.858 1 [error] <0.2704.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2704.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:45:19.858 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:45:19.859 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:45:19.863 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2703.1>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5554>,socket_mon =>
#Ref<0.155928093.3973578754.67958>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2704.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:45:19.864 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2704.1>,connection_down}
2022-06-27 19:45:21.108 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:45:29.862 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:45:29.953 1 [info] <0.2728.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:45:29.955 1 [info] <0.2728.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.2727.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:45:30.038 1 [error] <0.2727.1>@http2_client:handle_settings:822
gen_server <0.2727.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:45:30.039 1 [error] <0.2727.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2727.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:45:30.040 1 [error] <0.2728.1>@Undefined:Undefined:Undefined
gen_server <0.2728.1> terminated with reason: connection_down
2022-06-27 19:45:30.041 1 [error] <0.2728.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2728.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:45:30.041 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2728.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:45:30.042 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:45:30.042 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:45:30.043 1 [warning]
```



<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:45:30.044 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2727.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "52.210.14.128",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5555>,socket\_mon => #Ref<0.155928093.3973578754.68135>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.2728.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}]  
2022-06-27 19:45:30.045 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2728.1>,connection\_down}  
2022-06-27 19:45:31.242 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:45:36.749 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 19:45:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 19:45:36.749 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:

```
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:45:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:45:36.750 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5362,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:45:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:45:40.045 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:45:40.128 1 [info] <0.2731.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:45:40.129 1 [info] <0.2731.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.2730.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:45:40.309 1 [error] <0.2730.1>@http2_client:handle_settings:822
gen_server <0.2730.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:45:40.310 1 [error] <0.2730.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2730.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:45:40.311 1 [error] <0.2731.1>@Undefined:Undefined:Undefined
gen_server <0.2731.1> terminated with reason: connection_down
2022-06-27 19:45:40.312 1 [error] <0.2731.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2731.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:45:40.313 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2731.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:45:40.313 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:45:40.315 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:45:40.315 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:45:40.317 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2730.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5556>,socket_mon =>
#Ref<0.155928093.3973578754.68189>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.2731.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 19:45:40.319 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2731.1>,connection_down}
2022-06-27 19:45:41.389 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:45:50.318 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:45:50.646 1 [info] <0.2734.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:45:50.648 1 [info] <0.2734.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.2733.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:45:50.969 1 [error] <0.2733.1>@http2_client:handle_settings:822
gen_server <0.2733.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:45:50.971 1 [error] <0.2733.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2733.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:45:50.971 1 [error] <0.2734.1>@Undefined:Undefined:Undefined
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```
gen_server <0.2734.1> terminated with reason: connection_down
2022-06-27 19:45:50.972 1 [error] <0.2734.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2734.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:45:50.972 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2734.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:45:50.972 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:45:50.973 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:45:50.973 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:45:50.974 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2733.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5557>,socket_mon =>
#Ref<0.155928093.3974103041.99776>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2734.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:45:50.975 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2734.1>,connection_down}
2022-06-27 19:45:51.535 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:46:00.976 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:46:01.065 1 [info] <0.2737.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:46:01.066 1 [info] <0.2737.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.2736.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:46:01.150 1 [error] <0.2736.1>@http2_client:handle_settings:822
gen_server <0.2736.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:46:01.152 1 [error] <0.2736.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2736.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:46:01.152 1 [error] <0.2737.1>@Undefined:Undefined:Undefined
gen_server <0.2737.1> terminated with reason: connection_down
2022-06-27 19:46:01.153 1 [error] <0.2737.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2737.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:46:01.153 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2737.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:46:01.153 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:46:01.153 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:46:01.153 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:46:01.155 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2736.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"52.210.14.128">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}], host => "52.210.14.128", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.5558>, socket_mon =>
#Ref<0.155928093.3973578754.68287>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.2737.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file,"http2_client.erl"}, {line,822}],
{http2_client, handle_packet, 2, [{file,"http2_client.erl"}, {line,648}]},
{gen_server, try_dispatch, 4, [{file,"gen_server.erl"}, {line,695}]},
{gen_server, handle_msg, 6, [{file,"gen_server.erl"}, {line,771}]},
{proc_lib, init_p_do_apply, 3, [{file,"proc_lib.erl"}, {line,226}]}}}]
2022-06-27 19:46:01.155 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2737.1>,connection_down}
2022-06-27 19:46:01.689 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:46:06.755 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:46:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:46:06.756 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:46:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:46:06.757 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5366,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:46:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:46:11.155 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```



unary request via new connection to ip "54.207.131.103":

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 19:46:11.435 1 [info] <0.2740.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 19:46:11.437 1 [info] <0.2740.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"54.207.131.103">>,http_connection => <0.2739.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 19:46:11.706 1 [error] <0.2739.1>@http2_client:handle_settings:822
```

```
gen_server <0.2739.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 19:46:11.707 1 [error] <0.2739.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.2739.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 19:46:11.708 1 [error] <0.2740.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.2740.1> terminated with reason: connection_down
```

```
2022-06-27 19:46:11.708 1 [error] <0.2740.1>@Undefined:Undefined:Undefined
```

```
CRASH REPORT Process <0.2740.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 19:46:11.708 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.2740.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}],{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:46:11.708 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:46:11.709 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:46:11.709 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:46:11.711 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2739.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5559>,socket_mon =>
#Ref<0.155928093.3973578754.68338>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2740.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}]
2022-06-27 19:46:11.711 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2740.1>,connection_down}
```

2022-06-27 19:46:11.832 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:46:21.711 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "18.228.158.83":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:46:21.975 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:46:21.989 1 [info] <0.2747.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 19:46:21.991 1 [info] <0.2747.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"18.228.158.83">>,http\_connection => <0.2745.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 19:46:22.267 1 [error] <0.2745.1>@http2\_client:handle\_settings:822  
gen\_server <0.2745.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 19:46:22.271 1 [error] <0.2745.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.2745.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 19:46:22.271 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.2747.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:46:22.271 1 [error] <0.2747.1>@Undefined:Undefined:Undefined
gen_server <0.2747.1> terminated with reason: connection_down
2022-06-27 19:46:22.271 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:46:22.272 1 [error] <0.2747.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2747.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:46:22.273 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:46:22.273 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:46:22.277 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2745.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5560>,socket_mon =>
#Ref<0.155928093.3973578754.68407>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2747.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:46:22.278 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2747.1>,connection_down}
2022-06-27 19:46:32.109 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:46:32.276 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:46:32.552 1 [info] <0.2771.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:46:32.554 1 [info] <0.2771.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.2770.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:46:33.160 1 [error] <0.2770.1>@http2_client:handle_settings:822
gen_server <0.2770.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:46:33.162 1 [error] <0.2770.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2770.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:46:33.162 1 [error] <0.2771.1>@Undefined:Undefined:Undefined
gen_server <0.2771.1> terminated with reason: connection_down
2022-06-27 19:46:33.162 1 [error] <0.2771.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2771.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 19:46:33.164 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2771.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 19:46:33.164 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 19:46:33.165 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 19:46:33.165 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 19:46:33.167 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2770.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"18.228.115.118">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5561>,socket_mon =>
#Ref<0.155928093.3973316611.171164>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2771.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:46:33.167 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2771.1>,connection_down}
2022-06-27 19:46:36.749 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:46:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:46:36.749 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:46:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:46:36.750 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5370,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:46:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:46:42.246 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:46:43.168 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:46:43.502 1 [info] <0.2774.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:46:43.503 1 [info] <0.2774.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.2773.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:46:43.835 1 [error] <0.2773.1>@http2_client:handle_settings:822
gen_server <0.2773.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:46:43.837 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2774.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:46:43.837 1 [error] <0.2773.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2773.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:46:43.837 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:46:43.837 1 [error] <0.2774.1>@Undefined:Undefined:Undefined
gen_server <0.2774.1> terminated with reason: connection_down
2022-06-27 19:46:43.838 1 [error] <0.2774.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2774.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:46:43.838 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```



```
2022-06-27 19:46:43.838 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:46:43.839 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2773.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5562>,socket_mon =>
#Ref<0.155928093.3973578754.68665>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2774.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:46:43.840 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2774.1>,connection_down}
2022-06-27 19:46:52.395 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:46:53.841 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:46:54.078 1 [info] <0.2777.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 19:46:54.079 1 [info] <0.2777.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.2776.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:46:54.313 1 [error] <0.2776.1>@http2_client:handle_settings:822
gen_server <0.2776.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:46:54.314 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2777.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:46:54.315 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:46:54.315 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:46:54.316 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:46:54.316 1 [error] <0.2776.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2776.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:46:54.318 1 [error] <0.2777.1>@Undefined:Undefined:Undefined
gen_server <0.2777.1> terminated with reason: connection_down
2022-06-27 19:46:54.318 1 [error] <0.2777.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2777.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:46:54.320 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2776.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5563>,socket_mon =>
#Ref<0.155928093.3974103041.101029>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2777.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 19:46:54.321 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2777.1>,connection_down}
2022-06-27 19:47:02.549 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:47:04.319 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.38.70.101":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:47:06.748 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 19:47:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 19:47:06.749 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 19:47:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 19:47:06.750 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5374,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 19:47:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 19:47:12.702 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:47:21.679 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for peerbook <0.1639.0>  
2022-06-27 19:47:22.861 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:47:33.011 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:47:34.322 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}}],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}}],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}}]  
2022-06-27 19:47:34.322 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:47:34.323 1 [error] <0.2779.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2779.1> with 0 neighbours exited with reason: timeout
in gen_server:init_it/6 line 407
2022-06-27 19:47:34.323 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2779.1>,timeout}
2022-06-27 19:47:36.751 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:47:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:47:36.752 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:47:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:47:36.753 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5378,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:47:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:47:43.155 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:47:44.325 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:47:44.608 1 [info] <0.2808.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:47:44.609 1 [info] <0.2808.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.2807.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 19:47:44.881 1 [error] <0.2807.1>@http2_client:handle_settings:822
gen_server <0.2807.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:47:44.883 1 [error] <0.2807.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2807.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:47:44.883 1 [error] <0.2808.1>@Undefined:Undefined:Undefined
gen_server <0.2808.1> terminated with reason: connection_down
2022-06-27 19:47:44.883 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2808.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:47:44.884 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:47:44.884 1 [error] <0.2808.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2808.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:47:44.884 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:47:44.884 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:47:44.886 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.2807.1>,{function_clause,
[{http2_client,handle_settings,
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5565>,socket_mon =>
#Ref<0.155928093.3974103041.101529>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2808.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:47:44.887 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2808.1>,connection_down}
2022-06-27 19:47:53.295 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:47:54.886 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:47:55.049 1 [info] <0.2811.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:47:55.051 1 [info] <0.2811.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.2810.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:47:55.412 1 [error] <0.2810.1>@http2_client:handle_settings:822
gen_server <0.2810.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:47:55.413 1 [error] <0.2810.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2810.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:47:55.414 1 [error] <0.2811.1>@Undefined:Undefined:Undefined
gen_server <0.2811.1> terminated with reason: connection_down
2022-06-27 19:47:55.414 1 [error] <0.2811.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2811.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:47:55.416 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2811.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:47:55.416 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:47:55.416 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```



```
2022-06-27 19:47:55.417 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:47:55.418 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2810.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5566>,socket_mon =>
#Ref<0.155928093.3973578754.69827>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2811.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:47:55.418 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2811.1>,connection_down}
2022-06-27 19:48:03.439 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:48:05.419 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:48:05.503 1 [info] <0.2814.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 19:48:05.504 1 [info] <0.2814.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.2813.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:48:05.601 1 [error] <0.2813.1>@http2_client:handle_settings:822
gen_server <0.2813.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:48:05.602 1 [error] <0.2813.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2813.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:48:05.602 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2814.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:48:05.602 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:48:05.603 1 [error] <0.2814.1>@Undefined:Undefined:Undefined
gen_server <0.2814.1> terminated with reason: connection_down
2022-06-27 19:48:05.603 1 [error] <0.2814.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.2814.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:48:05.604 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 19:48:05.604 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 19:48:05.606 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.2813.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,  
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "3.70.55.231",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5567>,socket\_mon =>  
#Ref<0.155928093.3973578754.70021>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.2814.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}]}

2022-06-27 19:48:05.606 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.2814.1>,connection\_down}  
2022-06-27 19:48:06.756 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>

```
<<"2022-06-27 19:48:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:48:06.757 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:48:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:48:06.759 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5382,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:48:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:48:13.602 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:48:13.692 1 [info] <0.2816.1>@libp2p_transport_proxy:connect:
{38,5} init proxy with ["/p2p/
112ggfHaRfeozWYaKqZ22v2rnwVRhUcBaBU4CRTH6Ud2RgBs23bo","/p2p/
112JCDxLbPqXGkt7iCaywBBf4vQM7RPWA65iGYLPeKUeJtdWWNkR"]
2022-06-27 19:48:13.699 1 [error]
<0.2816.1>@libp2p_transport_proxy:connect_to:{69,13} failed to dial proxy server
"/p2p/112ggfHaRfeozWYaKqZ22v2rnwVRhUcBaBU4CRTH6Ud2RgBs23bo"
not_found
2022-06-27 19:48:13.702 1 [warning]
<0.1640.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
112JCDxLbPqXGkt7iCaywBBf4vQM7RPWA65iGYLPeKUeJtdWWNkR": [{"/p2p/
112ggfHaRfeozWYaKqZ22v2rnwVRhUcBaBU4CRTH6Ud2RgBs23bo/p2p-circuit/
p2p/
112JCDxLbPqXGkt7iCaywBBf4vQM7RPWA65iGYLPeKUeJtdWWNkR",fail_dial_pro
xy}]
2022-06-27 19:48:15.606 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:48:15.687 1 [info] <0.2818.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:48:15.688 1 [info] <0.2818.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.2817.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:48:15.770 1 [error] <0.2817.1>@http2_client:handle_settings:822
gen_server <0.2817.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:48:15.772 1 [error] <0.2817.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2817.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:48:15.772 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2818.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:48:15.772 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:48:15.773 1 [error] <0.2818.1>@Undefined:Undefined:Undefined
gen_server <0.2818.1> terminated with reason: connection_down
2022-06-27 19:48:15.773 1 [error] <0.2818.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2818.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:48:15.774 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:48:15.774 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 19:48:15.776 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2817.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5572>,socket_mon =>
#Ref<0.155928093.3973578754.70249>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2818.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:48:15.776 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2818.1>,connection_down}
2022-06-27 19:48:23.742 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:48:25.777 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:48:25.867 1 [info] <0.2821.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:48:25.868 1 [info] <0.2821.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.2820.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:48:25.956 1 [error] <0.2820.1>@http2_client:handle_settings:822
gen_server <0.2820.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:48:25.960 1 [error] <0.2820.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2820.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:48:25.960 1 [error] <0.2821.1>@Undefined:Undefined:Undefined
gen_server <0.2821.1> terminated with reason: connection_down
2022-06-27 19:48:25.961 1 [error] <0.2821.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2821.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:48:25.962 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2821.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:48:25.963 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 19:48:25.964 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:48:25.965 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:48:25.968 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2820.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}},]}},host => "52.30.111.82",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5573>,socket\_mon => #Ref<0.155928093.3973578754.70421>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.2821.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}}}

2022-06-27 19:48:25.969 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.2821.1>,connection\_down}

2022-06-27 19:48:33.891 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 19:48:35.968 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.207.131.103":



```
{gateway_validators_req_v1_pb,1}
2022-06-27 19:48:36.244 1 [info] <0.2824.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:48:36.245 1 [info] <0.2824.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.2823.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:48:36.514 1 [error] <0.2823.1>@http2_client:handle_settings:822
gen_server <0.2823.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:48:36.515 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2824.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:48:36.515 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:48:36.516 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:48:36.516 1 [error] <0.2823.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2823.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:48:36.516 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:48:36.516 1 [error] <0.2824.1>@Undefined:Undefined:Undefined
gen_server <0.2824.1> terminated with reason: connection_down
2022-06-27 19:48:36.516 1 [error] <0.2824.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2824.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:48:36.517 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2823.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5574>,socket_mon =>
#Ref<0.155928093.3974103041.102002>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2824.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 19:48:36.517 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2824.1>,connection_down}
2022-06-27 19:48:36.757 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:48:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:48:36.758 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:48:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:48:36.760 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5386,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:48:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:48:44.035 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:48:46.519 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:48:46.795 1 [info] <0.2827.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:48:46.796 1 [info] <0.2827.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.2826.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:48:47.069 1 [error] <0.2826.1>@http2_client:handle_settings:822
gen_server <0.2826.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:48:47.071 1 [error] <0.2826.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2826.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:48:47.074 1 [error] <0.2827.1>@Undefined:Undefined:Undefined
gen_server <0.2827.1> terminated with reason: connection_down
2022-06-27 19:48:47.075 1 [error] <0.2827.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2827.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:48:47.075 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2827.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:48:47.075 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:48:47.076 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:48:47.076 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:48:47.079 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2826.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5575>,socket_mon =>
#Ref<0.155928093.3974103041.102126>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2827.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:48:47.080 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2827.1>,connection_down}
2022-06-27 19:48:54.178 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:48:57.079 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:48:57.159 1 [info] <0.2830.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:48:57.160 1 [info] <0.2830.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.2829.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:48:57.240 1 [error] <0.2829.1>@http2_client:handle_settings:822
gen_server <0.2829.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:48:57.243 1 [error] <0.2829.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2829.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:48:57.243 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2830.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:48:57.243 1 [error] <0.2830.1>@Undefined:Undefined:Undefined
gen_server <0.2830.1> terminated with reason: connection_down
2022-06-27 19:48:57.244 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:48:57.244 1 [error] <0.2830.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2830.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:48:57.244 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:48:57.245 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:48:57.247 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2829.1>,{function_clause,
[{http2_client,handle_settings,
[],<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.72.143.228">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5576>,socket_mon =>
#Ref<0.155928093.3973578754.70796>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2830.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 19:48:57.248 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2830.1>,connection_down}
2022-06-27 19:49:04.325 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:49:06.762 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:49:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:49:06.762 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:49:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:49:06.763 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5390,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 19:49:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:49:07.247 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:49:07.330 1 [info] <0.2833.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:49:07.331 1 [info] <0.2833.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.2832.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:49:07.410 1 [error] <0.2832.1>@http2_client:handle_settings:822
gen_server <0.2832.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:49:07.411 1 [error] <0.2832.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2832.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:49:07.412 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2833.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```



```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 19:49:07.412 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:49:07.412 1 [error] <0.2833.1>@Undefined:Undefined:Undefined
gen_server <0.2833.1> terminated with reason: connection_down
2022-06-27 19:49:07.413 1 [error] <0.2833.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2833.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:49:07.413 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:49:07.414 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:49:07.417 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2832.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5577>,socket_mon =>
#Ref<0.155928093.3973578754.70865>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2833.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 19:49:07.417 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2833.1>,connection_down}
2022-06-27 19:49:14.469 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:49:17.417 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:49:17.695 1 [info] <0.2844.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:49:17.696 1 [info] <0.2844.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.2843.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:49:17.971 1 [error] <0.2843.1>@http2_client:handle_settings:822
gen_server <0.2843.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:49:17.971 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2844.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
```

```
2022-06-27 19:49:17.971 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:49:17.972 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:49:17.972 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:49:17.974 1 [error] <0.2843.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2843.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:49:17.975 1 [error] <0.2844.1>@Undefined:Undefined:Undefined
gen_server <0.2844.1> terminated with reason: connection_down
2022-06-27 19:49:17.976 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2843.1>,{function_clause,
[{:http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5578>,socket_mon =>
#Ref<0.155928093.3974103041.102686>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2844.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:49:17.976 1 [error] <0.2844.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2844.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:49:17.976 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2844.1>,connection_down} 2022-06-27
19:49:24.616 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 19:49:27.974 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:49:28.254 1 [info] <0.2904.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:49:28.255 1 [info] <0.2904.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.2903.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:49:28.531 1 [error] <0.2903.1>@http2_client:handle_settings:822
gen_server <0.2903.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:49:28.532 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2904.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

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{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:49:28.532 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:49:28.533 1 [error] <0.2903.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2903.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:49:28.533 1 [error] <0.2904.1>@Undefined:Undefined:Undefined
gen_server <0.2904.1> terminated with reason: connection_down
2022-06-27 19:49:28.533 1 [error] <0.2904.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2904.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:49:28.534 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:49:28.534 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:49:28.536 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2903.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"18.228.115.118">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5586>,socket_mon =>
#Ref<0.155928093.3973578754.71070>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2904.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:49:28.536 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2904.1>,connection_down} 2022-06-27
19:49:34.768 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 19:49:36.755 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:49:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:49:36.756 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:49:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:49:36.757 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5394,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:49:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:49:38.537 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:49:38.875 1 [info] <0.2907.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:49:38.876 1 [info] <0.2907.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.2906.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:49:39.203 1 [error] <0.2906.1>@http2_client:handle_settings:822
gen_server <0.2906.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:49:39.204 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2907.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:49:39.204 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:49:39.205 1 [error] <0.2906.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2906.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:49:39.205 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:49:39.205 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:49:39.205 1 [error] <0.2907.1>@Undefined:Undefined:Undefined
gen_server <0.2907.1> terminated with reason: connection_down
2022-06-27 19:49:39.205 1 [error] <0.2907.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.2907.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:49:39.207 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.2906.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,  
{<<":authority">>,<<"13.237.155.172">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "13.237.155.172",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5587>,socket\_mon =>  
#Ref<0.155928093.3973578754.71127>,state => open,stream\_count => 1,streams  
=> [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner =>  
<0.2907.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 19:49:39.207 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.2907.1>,connection\_down}  
2022-06-27 19:49:44.909 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:49:46.781 1 [warning]  
<0.1639.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/  
112ajVc9Dg4innr2UoNA4p6o2c4JXajKS7ZdAMxYdue561WkaHoQ": [{"/  
ip4/71.112.154.23/tcp/44158",timeout}]  
2022-06-27 19:49:49.208 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.72.215.7":



```
{gateway_validators_req_v1_pb,1}
2022-06-27 19:49:49.292 1 [info] <0.2911.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:49:49.295 1 [info] <0.2911.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.2910.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:49:49.473 1 [error] <0.2910.1>@http2_client:handle_settings:822
gen_server <0.2910.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:49:49.476 1 [error] <0.2910.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2910.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:49:49.476 1 [error] <0.2911.1>@Undefined:Undefined:Undefined
gen_server <0.2911.1> terminated with reason: connection_down
2022-06-27 19:49:49.476 1 [error] <0.2911.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2911.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:49:49.477 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2911.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 19:49:49.477 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:49:49.478 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:49:49.478 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:49:49.480 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2910.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"3.72.215.7">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5593>,socket_mon =>
#Ref<0.155928093.3973578754.71189>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2911.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 19:49:49.480 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2911.1>,connection_down}
2022-06-27 19:49:55.058 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:49:59.481 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:49:59.640 1 [info] <0.2915.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:49:59.641 1 [info] <0.2915.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.2913.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:49:59.800 1 [error] <0.2913.1>@http2_client:handle_settings:822
gen_server <0.2913.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:49:59.803 1 [error] <0.2913.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2913.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:49:59.804 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2915.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 19:49:59.804 1 [error] <0.2915.1>@Undefined:Undefined:Undefined
gen_server <0.2915.1> terminated with reason: connection_down
2022-06-27 19:49:59.805 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:49:59.806 1 [error] <0.2915.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2915.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:49:59.806 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:49:59.807 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:49:59.811 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2913.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5594>,socket_mon =>
#Ref<0.155928093.3974103041.103502>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2915.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}}
2022-06-27 19:49:59.811 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2915.1>,connection_down} 2022-06-27
19:50:05.208 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 19:50:06.760 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:50:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:50:06.761 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:50:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:50:06.762 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5398,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:50:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:50:09.809 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:50:10.089 1 [info] <0.2918.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:50:10.091 1 [info] <0.2918.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.2917.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:50:10.360 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2918.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[[file,"gen_server.erl"],{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}]],{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:50:10.360 1 [error] <0.2917.1>@http2_client:handle_settings:822
gen_server <0.2917.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:50:10.360 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:50:10.361 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:50:10.361 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:50:10.362 1 [error] <0.2917.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2917.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:50:10.362 1 [error] <0.2918.1>@Undefined:Undefined:Undefined
gen_server <0.2918.1> terminated with reason: connection_down
2022-06-27 19:50:10.362 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2917.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>, <<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>, <<"application/grpc+proto">>}}, {54,
{<<":authority">>, <<"3.39.165.144">>}}, {63, {<<":path">>, <<"/helium.gateway/
validators">>}}], host => "3.39.165.144", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.5595>, socket_mon =>
#Ref<0.155928093.3973578754.71381>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.2918.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file, "http2_client.erl"}, {line, 822}],
{http2_client, handle_packet, 2, [{file, "http2_client.erl"}, {line, 648}]},
{gen_server, try_dispatch, 4, [{file, "gen_server.erl"}, {line, 695}]},
{gen_server, handle_msg, 6, [{file, "gen_server.erl"}, {line, 771}]},
{proc_lib, init_p_do_apply, 3, [{file, "proc_lib.erl"}, {line, 226}]}}]
2022-06-27 19:50:10.362 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT', <0.2918.1>, connection_down}
2022-06-27 19:50:10.362 1 [error] <0.2918.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2918.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:50:15.349 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:50:20.363 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb, 1}
2022-06-27 19:50:21.545 1 [info] <0.2927.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:50:21.546 1 [info] <0.2927.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>, compression =>
none, connection => #{client => http2_client, host =>
<<"3.137.92.200">>, http_connection => <0.2924.1>, scheme =>
<<"http">>}, encoder => gateway_miner_client_pb, headers_sent => false, input =>
gateway_validators_req_v1_pb, input_stream => false, metadata => #{}}, name =>
validators, opts => [], output => gateway_resp_v1_pb, output_stream =>
false, package => [], queue => {[], []}, response_pending => false, rpc =>
validators, service => 'helium.gateway', state => idle, stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 19:50:21.708 1 [error] <0.2924.1>@http2_client:handle_settings:822
gen_server <0.2924.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:50:21.710 1 [error] <0.2924.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2924.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:50:21.713 1 [error] <0.2927.1>@Undefined:Undefined:Undefined
gen_server <0.2927.1> terminated with reason: connection_down
2022-06-27 19:50:21.714 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2927.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:50:21.714 1 [error] <0.2927.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2927.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:50:21.714 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:50:21.715 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:50:21.715 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:50:21.718 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```



```
in setup state: Type: info, Msg: {'EXIT',<0.2924.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5601>,socket_mon =>
#Ref<0.155928093.3973578754.71446>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2927.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}]}
2022-06-27 19:50:21.719 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2927.1>,connection_down}
2022-06-27 19:50:22.000 1 [warning]
<0.1643.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
112PheFk42tyzuw1uSNyezVifBQbEkTYHLnBDkY1TUZnkWx67CkK": [{"/
ip4/95.70.165.108/tcp/29875",timeout}]
2022-06-27 19:50:25.495 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:50:31.718 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:50:31.948 1 [info] <0.2950.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:50:31.950 1 [info] <0.2950.1>@grpc_client_stream_custom:init:
```

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.2949.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:50:32.191 1 [error] <0.2949.1>@http2_client:handle_settings:822
gen_server <0.2949.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:50:32.193 1 [error] <0.2949.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2949.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:50:32.194 1 [error] <0.2950.1>@Undefined:Undefined:Undefined
gen_server <0.2950.1> terminated with reason: connection_down
2022-06-27 19:50:32.195 1 [error] <0.2950.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2950.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:50:32.196 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2950.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:50:32.197 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 19:50:32.197 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:50:32.198 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:50:32.200 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2949.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5602>,socket_mon =>
#Ref<0.155928093.3973578754.71620>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2950.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 19:50:32.201 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2950.1>,connection_down}
2022-06-27 19:50:35.652 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:50:36.765 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
```

```
#{"stat": 0, "ackr": 0.0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0.0, "time": "2022-06-27 19:50:36 GMT", "txnb": 0} from
12291671073248440251 on 35152
2022-06-27 19:50:36.766 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status {"ackr": 0.0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0.0, "time": "2022-06-27 19:50:36 GMT", "txnb": 0}
2022-06-27 19:50:36.767 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5402,dropped=0,status={"ackr": 0.0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0.0, "time": "2022-06-27 19:50:36 GMT", "txnb": 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:50:42.202 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:50:42.442 1 [info] <0.2953.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:50:42.443 1 [info] <0.2953.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state {buffer => <<>>,compression =>
none,connection => {client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.2952.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:50:42.674 1 [error] <0.2952.1>@http2_client:handle_settings:822
gen_server <0.2952.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:50:42.675 1 [error] <0.2952.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2952.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:50:42.675 1 [error] <0.2953.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.2953.1> terminated with reason: connection_down
2022-06-27 19:50:42.676 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2953.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:50:42.676 1 [error] <0.2953.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2953.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:50:42.676 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:50:42.676 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:50:42.677 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:50:42.678 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2952.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5603>,socket_mon =>
#Ref<0.155928093.3973578754.71675>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2953.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:50:42.679 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2953.1>,connection_down}
2022-06-27 19:50:45.799 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:50:52.680 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:50:52.845 1 [info] <0.2956.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:50:52.846 1 [info] <0.2956.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.2955.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:50:53.010 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2956.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 19:50:53.010 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:50:53.011 1 [error] <0.2955.1>@http2_client:handle_settings:822
gen_server <0.2955.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:50:53.011 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:50:53.012 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:50:53.013 1 [error] <0.2955.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2955.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:50:53.014 1 [error] <0.2956.1>@Undefined:Undefined:Undefined
gen_server <0.2956.1> terminated with reason: connection_down
2022-06-27 19:50:53.017 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2955.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5604>,socket_mon =>
#Ref<0.155928093.3973578754.71726>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2956.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 19:50:53.017 1 [error] <0.2956.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2956.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:50:53.018 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2956.1>,connection_down} 2022-06-27
19:50:55.952 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 19:51:03.014 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:51:04.358 1 [info] <0.2959.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:51:04.359 1 [info] <0.2959.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.2958.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:51:04.686 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2959.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}},
```



```
{grpc_client_stream_custom,process_response,2,
[{{file,"grpc_client_stream_custom.erl"},{line,418}}],{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 19:51:04.686 1 [error] <0.2958.1>@http2_client:handle_settings:822
gen_server <0.2958.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:51:04.686 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:51:04.687 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:51:04.687 1 [error] <0.2958.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2958.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:51:04.687 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:51:04.687 1 [error] <0.2959.1>@Undefined:Undefined:Undefined
gen_server <0.2959.1> terminated with reason: connection_down
2022-06-27 19:51:04.688 1 [error] <0.2959.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2959.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:51:04.689 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2958.1>,{function_clause,
[{{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5605>,socket_mon =>
#Ref<0.155928093.3973578754.71786>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2959.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 19:51:04.689 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2959.1>,connection_down}
2022-06-27 19:51:06.108 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:51:06.762 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:51:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:51:06.762 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:51:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:51:06.764 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5406,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 19:51:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:51:14.690 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:51:16.245 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:51:26.398 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:51:36.542 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:51:36.767 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:51:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:51:36.768 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:51:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:51:36.769 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5410,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:51:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 19:51:44.693 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:51:44.693 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 19:51:44.694 1 [error] <0.2961.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2961.1> with 0 neighbours exited with reason: timeout
in gen_server:init_it/6 line 407
2022-06-27 19:51:44.694 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2961.1>,timeout}
2022-06-27 19:51:46.675 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:51:54.696 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:51:54.787 1 [info] <0.2989.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:51:54.790 1 [info] <0.2989.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.2988.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:51:54.872 1 [error] <0.2988.1>@http2_client:handle_settings:822
gen_server <0.2988.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:51:54.874 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2989.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 19:51:54.875 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:51:54.875 1 [error] <0.2988.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2988.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:51:54.876 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:51:54.876 1 [error] <0.2989.1>@Undefined:Undefined:Undefined
gen_server <0.2989.1> terminated with reason: connection_down
2022-06-27 19:51:54.876 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:51:54.877 1 [error] <0.2989.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2989.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:51:54.880 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2988.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5607>,socket_mon =>
#Ref<0.155928093.3973578754.72099>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2989.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 19:51:54.881 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2989.1>,connection_down} 2022-06-27
19:51:56.815 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 19:52:04.879 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:52:05.159 1 [info] <0.2992.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:52:05.162 1 [info] <0.2992.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.2991.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:52:05.431 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2992.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
```

```
2022-06-27 19:52:05.431 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:52:05.431 1 [error] <0.2991.1>@http2_client:handle_settings:822
gen_server <0.2991.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:52:05.432 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:52:05.432 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:52:05.432 1 [error] <0.2991.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2991.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:52:05.433 1 [error] <0.2992.1>@Undefined:Undefined:Undefined
gen_server <0.2992.1> terminated with reason: connection_down
2022-06-27 19:52:05.434 1 [error] <0.2992.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2992.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:52:05.434 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2991.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},server_window => 65528,socket => #Port<0.5608>,socket_mon =>
#Ref<0.155928093.3973578754.72162>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2992.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 19:52:05.435 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2992.1>,connection_down}
2022-06-27 19:52:06.767 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:52:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:52:06.768 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:52:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:52:06.770 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5413,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:52:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:52:06.972 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:52:15.435 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:52:15.520 1 [info] <0.2995.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:52:15.521 1 [info] <0.2995.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```



```
<<"3.70.55.231">>,http_connection => <0.2994.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:52:15.709 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2995.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:52:15.710 1 [error] <0.2994.1>@http2_client:handle_settings:822
gen_server <0.2994.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:52:15.710 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:52:15.711 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:52:15.712 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:52:15.712 1 [error] <0.2994.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.2994.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 19:52:15.713 1 [error] <0.2995.1>@Undefined:Undefined:Undefined  
gen\_server <0.2995.1> terminated with reason: connection\_down  
2022-06-27 19:52:15.713 1 [error] <0.2995.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.2995.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:52:15.716 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.2994.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{53,  
{<<":authority">>,<<"3.70.55.231">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "3.70.55.231",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5609>,socket\_mon =>  
#Ref<0.155928093.3973578754.72235>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.2995.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}}  
2022-06-27 19:52:15.718 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.2995.1>,connection\_down}  
2022-06-27 19:52:17.122 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 19:52:21.680 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for  
peerbook <0.1643.0>  
2022-06-27 19:52:25.713 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:52:25.950 1 [info] <0.2999.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:52:25.951 1 [info] <0.2999.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.2998.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:52:26.186 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.2999.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:52:26.186 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:52:26.187 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:52:26.187 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:52:26.189 1 [error] <0.2998.1>@http2_client:handle_settings:822
gen_server <0.2998.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:52:26.190 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2998.1>,{function_clause,
[{:http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},]}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5610>,socket_mon =>
#Ref<0.155928093.3974103041.105256>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.2999.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:52:26.191 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.2999.1>,connection_down} 2022-06-27
19:52:26.191 1 [error] <0.2998.1>@http2_client:handle_settings:822 CRASH
REPORT Process <0.2998.1> with 0 neighbours crashed with reason: no function
clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:52:26.192 1 [error] <0.2999.1>@Undefined:Undefined:Undefined
gen_server <0.2999.1> terminated with reason: connection_down
2022-06-27 19:52:26.192 1 [error] <0.2999.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.2999.1> with 0 neighbours exited with reason:
```

connection\_down in gen\_server:handle\_common\_reply/8 line 811 2022-06-27 19:52:27.272 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 19:52:36.190 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.215.75.202":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 19:52:36.428 1 [info] <0.3044.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 19:52:36.428 1 [info] <0.3044.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"13.215.75.202">>,http\_connection => <0.3041.1>,scheme => <<"http">>,encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{},name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 19:52:36.659 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.3044.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]}]

2022-06-27 19:52:36.660 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 19:52:36.660 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:52:36.661 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

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2022-06-27 19:52:36.661 1 [error] <0.3041.1>@http2_client:handle_settings:822
gen_server <0.3041.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:52:36.662 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3041.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5617>,socket_mon =>
#Ref<0.155928093.3974103041.105479>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3044.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 19:52:36.663 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3044.1>,connection_down}
2022-06-27 19:52:36.662 1 [error] <0.3041.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3041.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 19:52:36.663 1 [error] <0.3044.1>@Undefined:Undefined:Undefined
gen_server <0.3044.1> terminated with reason: connection_down
2022-06-27 19:52:36.663 1 [error] <0.3044.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3044.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:52:36.774 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:52:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:52:36.775 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:52:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:52:36.776 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5417,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:52:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:52:37.415 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:52:46.664 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:52:46.754 1 [info] <0.3056.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:52:46.755 1 [info] <0.3056.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.3055.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:52:46.838 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3056.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]],
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:52:46.838 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:52:46.838 1 [error] <0.3055.1>@http2_client:handle_settings:822
gen_server <0.3055.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:52:46.839 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:52:46.839 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:52:46.840 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3055.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```



```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5618>,socket_mon =>
#Ref<0.155928093.3973316611.174497>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3056.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:52:46.840 1 [error] <0.3055.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3055.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:52:46.841 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3056.1>,connection_down}
2022-06-27 19:52:46.841 1 [error] <0.3056.1>@Undefined:Undefined:Undefined
gen_server <0.3056.1> terminated with reason: connection_down
2022-06-27 19:52:46.841 1 [error] <0.3056.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3056.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:52:47.565 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:52:56.842 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:52:57.073 1 [info] <0.3059.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:52:57.075 1 [info] <0.3059.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.3058.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:52:57.301 1 [error] <0.3058.1>@http2_client:handle_settings:822
gen_server <0.3058.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:52:57.305 1 [error] <0.3058.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3058.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:52:57.305 1 [error] <0.3059.1>@Undefined:Undefined:Undefined
gen_server <0.3059.1> terminated with reason: connection_down
2022-06-27 19:52:57.306 1 [error] <0.3059.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3059.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:52:57.306 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3059.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:52:57.307 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:52:57.308 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:52:57.309 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

2022-06-27 19:52:57.312 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3058.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5619>,socket_mon =>
#Ref<0.155928093.3973578754.72458>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3059.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 19:52:57.313 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3059.1>,connection_down}
```

2022-06-27 19:52:57.718 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 19:53:06.769 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:53:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

```
2022-06-27 19:53:06.770 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 19:53:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:53:06.771 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5421,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:53:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:53:07.312 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:53:07.642 1 [info] <0.3062.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:53:07.643 1 [info] <0.3062.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.3061.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:53:07.875 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:53:07.969 1 [error] <0.3061.1>@http2_client:handle_settings:822
gen_server <0.3061.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:53:07.971 1 [error] <0.3061.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3061.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:53:07.971 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3062.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}]
2022-06-27 19:53:07.971 1 [error] <0.3062.1>@Undefined:Undefined:Undefined
gen_server <0.3062.1> terminated with reason: connection_down
2022-06-27 19:53:07.971 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:53:07.972 1 [error] <0.3062.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3062.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:53:07.972 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:53:07.972 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:53:07.974 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3061.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{54,
{<<":authority">>,<<"3.24.161.210">>}}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5620>,socket_mon =>
#Ref<0.155928093.3973578754.72551>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3062.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:53:07.975 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3062.1>,connection_down}
2022-06-27 19:53:17.975 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:53:18.015 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:53:28.152 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:53:36.770 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:53:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:53:36.771 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:53:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:53:36.772 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5425,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:53:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:53:38.308 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:53:47.980 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}]
2022-06-27 19:53:47.981 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:53:47.982 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3064.1>,timeout}
2022-06-27 19:53:47.983 1 [error] <0.3064.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3064.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 19:53:48.475 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:53:57.984 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:53:58.077 1 [info] <0.3092.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:53:58.080 1 [info] <0.3092.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.3091.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:53:58.162 1 [error] <0.3091.1>@http2_client:handle_settings:822
gen_server <0.3091.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 19:53:58.164 1 [error] <0.3091.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3091.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:53:58.165 1 [error] <0.3092.1>@Undefined:Undefined:Undefined
gen_server <0.3092.1> terminated with reason: connection_down
2022-06-27 19:53:58.165 1 [error] <0.3092.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3092.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:53:58.165 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3092.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:53:58.166 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:53:58.166 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:53:58.166 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:53:58.168 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3091.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```



```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5622>,socket_mon =>
#Ref<0.155928093.3974103041.106295>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3092.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 19:53:58.168 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3092.1>,connection_down}
2022-06-27 19:53:58.631 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:54:06.775 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:54:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:54:06.775 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:54:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:54:06.776 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5429,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:54:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
```

```
2022-06-27 19:54:08.169 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:54:08.331 1 [info] <0.3095.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:54:08.333 1 [info] <0.3095.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.3094.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:54:08.491 1 [error] <0.3094.1>@http2_client:handle_settings:822
gen_server <0.3094.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:54:08.495 1 [error] <0.3094.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3094.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:54:08.498 1 [error] <0.3095.1>@Undefined:Undefined:Undefined
gen_server <0.3095.1> terminated with reason: connection_down
2022-06-27 19:54:08.499 1 [error] <0.3095.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3095.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:54:08.499 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3095.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:54:08.500 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:54:08.501 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:54:08.501 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:54:08.505 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3094.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"3.137.92.200">>}],{63,<<":path">>,<<"/helium.gateway/
validators">>}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5623>,socket_mon =>
#Ref<0.155928093.3974103041.106383>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3095.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:54:08.505 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3095.1>,connection_down}
2022-06-27 19:54:08.778 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:54:18.504 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:54:18.587 1 [info] <0.3098.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:54:18.588 1 [info] <0.3098.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.3097.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:54:18.668 1 [error] <0.3097.1>@http2_client:handle_settings:822
gen_server <0.3097.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:54:18.671 1 [error] <0.3097.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3097.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:54:18.672 1 [error] <0.3098.1>@Undefined:Undefined:Undefined
gen_server <0.3098.1> terminated with reason: connection_down
2022-06-27 19:54:18.673 1 [error] <0.3098.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3098.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:54:18.673 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3098.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl",{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl",{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl",{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl",{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl",{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl",{line,226}]]}
2022-06-27 19:54:18.674 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:54:18.675 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:54:18.676 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:54:18.679 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3097.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"3.122.38.248">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5624>,socket_mon =>
#Ref<0.155928093.3974103041.106501>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3098.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[file,"http2_client.erl",{line,822}]],
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:54:18.680 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3098.1>,connection_down} 2022-06-27
19:54:18.932 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 19:54:28.679 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:54:28.762 1 [info] <0.3101.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:54:28.764 1 [info] <0.3101.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.3100.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:54:28.836 1 [error] <0.3100.1>@http2_client:handle_settings:822
gen_server <0.3100.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:54:28.837 1 [error] <0.3100.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3100.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:54:28.838 1 [error] <0.3101.1>@Undefined:Undefined:Undefined
gen_server <0.3101.1> terminated with reason: connection_down
2022-06-27 19:54:28.839 1 [error] <0.3101.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3101.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:54:28.839 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.3101.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:54:28.840 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:54:28.841 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:54:28.841 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:54:28.844 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3100.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.122.38.248">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5625>,socket_mon =>
#Ref<0.155928093.3973578754.72788>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3101.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 19:54:28.845 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3101.1>,connection_down}
2022-06-27 19:54:29.075 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:54:36.778 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:54:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:54:36.779 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:54:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:54:36.780 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5433,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:54:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:54:38.843 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:54:38.927 1 [info] <0.3104.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:54:38.928 1 [info] <0.3104.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.3103.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```



```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:54:39.003 1 [error] <0.3103.1>@http2_client:handle_settings:822
gen_server <0.3103.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:54:39.004 1 [error] <0.3103.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3103.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:54:39.005 1 [error] <0.3104.1>@Undefined:Undefined:Undefined
gen_server <0.3104.1> terminated with reason: connection_down
2022-06-27 19:54:39.005 1 [error] <0.3104.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3104.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:54:39.006 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3104.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:54:39.006 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:54:39.007 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:54:39.007 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 19:54:39.008 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3103.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5626>,socket_mon =>
#Ref<0.155928093.3973578754.72821>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3104.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:54:39.009 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3104.1>,connection_down}
2022-06-27 19:54:39.232 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:54:48.614 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11sZmmPqWzEZAg35yKu77ni3fbP9KY7S4KWDhR8HWkuojM8Kejz" informed us
of our observed address "/ip4/80.77.186.186/tcp/51506"
2022-06-27 19:54:49.011 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 19:54:49.094 1 [info] <0.3144.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:54:49.095 1 [info] <0.3144.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.3143.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:54:49.173 1 [error] <0.3143.1>@http2_client:handle_settings:822
gen_server <0.3143.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:54:49.176 1 [error] <0.3143.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3143.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:54:49.176 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3144.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:54:49.176 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:54:49.176 1 [error] <0.3144.1>@Undefined:Undefined:Undefined
```

gen\_server <0.3144.1> terminated with reason: connection\_down  
2022-06-27 19:54:49.177 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 19:54:49.177 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 19:54:49.177 1 [error] <0.3144.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.3144.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:54:49.178 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.3143.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,282,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,  
{<<":authority">>,<<"3.72.215.7">>}}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}}]}],host => "3.72.215.7",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5632>,socket\_mon =>  
#Ref<0.155928093.3973578754.72966>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.3144.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}  
2022-06-27 19:54:49.179 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.3144.1>,connection\_down}  
2022-06-27 19:54:49.369 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from

12291671073248440251 on 56833  
2022-06-27 19:54:59.179 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.70.239.5":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 19:54:59.409 1 [info] <0.3151.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 19:54:59.410 1 [info] <0.3151.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"54.70.239.5">>,http\_connection => <0.3150.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 19:54:59.512 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:54:59.638 1 [error] <0.3150.1>@http2\_client:handle\_settings:822 gen\_server <0.3150.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 19:54:59.639 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.3151.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 19:54:59.639 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message =>

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<<"stream create failed">>}}
2022-06-27 19:54:59.640 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:54:59.640 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:54:59.640 1 [error] <0.3150.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3150.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:54:59.641 1 [error] <0.3151.1>@Undefined:Undefined:Undefined
gen_server <0.3151.1> terminated with reason: connection_down
2022-06-27 19:54:59.642 1 [error] <0.3151.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3151.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:54:59.643 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3150.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"54.70.239.5">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5633>,socket_mon =>
#Ref<0.155928093.3973578754.73120>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3151.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]}
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 19:54:59.644 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3151.1>,connection_down}
2022-06-27 19:55:06.777 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:55:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:55:06.777 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:55:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:55:06.778 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5437,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:55:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:55:09.643 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:55:09.668 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:55:09.806 1 [info] <0.3155.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:55:09.807 1 [info] <0.3155.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.3154.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:55:09.966 1 [error] <0.3154.1>@http2_client:handle_settings:822
gen_server <0.3154.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:55:09.967 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3155.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:55:09.967 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:55:09.968 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:55:09.968 1 [error] <0.3154.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3154.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:55:09.968 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:55:09.969 1 [error] <0.3155.1>@Undefined:Undefined:Undefined
gen_server <0.3155.1> terminated with reason: connection_down
2022-06-27 19:55:09.969 1 [error] <0.3155.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3155.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:55:09.972 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3154.1>,{function_clause,
[{http2_client,handle_settings,
```



```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"3.132.190.192">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5634>,socket_mon =>
#Ref<0.155928093.3973578754.73282>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3155.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:55:09.974 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3155.1>,connection_down}
2022-06-27 19:55:19.799 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:55:19.970 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:55:21.256 1 [info] <0.3159.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:55:21.258 1 [info] <0.3159.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.3157.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

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false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:55:21.530 1 [error] <0.3157.1>@http2_client:handle_settings:822
gen_server <0.3157.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:55:21.532 1 [error] <0.3157.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3157.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:55:21.532 1 [error] <0.3159.1>@Undefined:Undefined:Undefined
gen_server <0.3159.1> terminated with reason: connection_down
2022-06-27 19:55:21.533 1 [error] <0.3159.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3159.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:55:21.534 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3159.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:55:21.535 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:55:21.536 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:55:21.536 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
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validator failed: {error,req_failed}
2022-06-27 19:55:21.540 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3157.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5635>,socket_mon =>
#Ref<0.155928093.3973578754.73456>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3159.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:55:21.542 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3159.1>,connection_down}
2022-06-27 19:55:29.942 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:55:31.539 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:55:31.818 1 [info] <0.3162.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:55:31.818 1 [info] <0.3162.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.3161.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:55:32.089 1 [error] <0.3161.1>@http2_client:handle_settings:822
gen_server <0.3161.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:55:32.090 1 [error] <0.3161.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3161.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:55:32.091 1 [error] <0.3162.1>@Undefined:Undefined:Undefined
gen_server <0.3162.1> terminated with reason: connection_down
2022-06-27 19:55:32.091 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3162.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:55:32.091 1 [error] <0.3162.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3162.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:55:32.091 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 19:55:32.092 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:55:32.092 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:55:32.096 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3161.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[[42, {<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66, {<<"content-type">>,<<"application/grpc+proto">>}],{54, {<<":authority">>,<<"3.39.165.144">>}],{63,{<<":path">>,<<"/helium.gateway/validators">>}]}],host => "3.39.165.144",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5636>,socket\_mon => #Ref<0.155928093.3973578754.73635>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.3162.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 19:55:32.096 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3162.1>,connection\_down}

2022-06-27 19:55:36.779 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 19:55:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

```
2022-06-27 19:55:36.781 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:55:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:55:36.783 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5441,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:55:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:55:40.085 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:55:42.094 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:55:42.333 1 [info] <0.3165.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:55:42.335 1 [info] <0.3165.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.3164.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:55:42.565 1 [error] <0.3164.1>@http2_client:handle_settings:822
gen_server <0.3164.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:55:42.566 1 [error] <0.3164.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3164.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:55:42.568 1 [error] <0.3165.1>@Undefined:Undefined:Undefined
gen_server <0.3165.1> terminated with reason: connection_down
```

```
2022-06-27 19:55:42.568 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3165.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:55:42.568 1 [error] <0.3165.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3165.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 19:55:42.569 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 19:55:42.569 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 19:55:42.570 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 19:55:42.573 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3164.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5637>,socket_mon =>
#Ref<0.155928093.3973578754.73800>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3165.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:55:42.574 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3165.1>,connection_down}
2022-06-27 19:55:49.704 1 [notice]
<0.3182.1>@libp2p_stream_relay:handle_info:{146,5} client init bridge Server to
Client {libp2p_relay_bridge_rs_pb,"/p2p/
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv","/
ip4/142.167.8.177/tcp/44163"}
2022-06-27 19:55:50.229 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:55:50.659 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112BweFL3BXKfioFaBz5mkxjwR856zv7KArSoNVPmRg2VyEAa5EC" informed us of
our observed address "/ip4/80.77.186.186/tcp/37284"
2022-06-27 19:55:52.572 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:55:52.663 1 [info] <0.3199.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:55:52.664 1 [info] <0.3199.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.3198.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```



```
2022-06-27 19:55:52.753 1 [error] <0.3198.1>@http2_client:handle_settings:822
gen_server <0.3198.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:55:52.755 1 [error] <0.3198.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3198.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:55:52.755 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3199.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:55:52.755 1 [error] <0.3199.1>@Undefined:Undefined:Undefined
gen_server <0.3199.1> terminated with reason: connection_down
2022-06-27 19:55:52.755 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:55:52.756 1 [error] <0.3199.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3199.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:55:52.756 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:55:52.756 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:55:52.758 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.3198.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5639>,socket_mon =>
#Ref<0.155928093.3973316611.176913>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3199.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:55:52.759 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3199.1>,connection_down}
2022-06-27 19:56:00.365 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:56:02.759 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:56:02.998 1 [info] <0.3216.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:56:03.001 1 [info] <0.3216.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.3215.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:56:03.228 1 [error] <0.3215.1>@http2_client:handle_settings:822
gen_server <0.3215.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:56:03.229 1 [error] <0.3215.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3215.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:56:03.229 1 [error] <0.3216.1>@Undefined:Undefined:Undefined
gen_server <0.3216.1> terminated with reason: connection_down
2022-06-27 19:56:03.229 1 [error] <0.3216.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3216.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:56:03.229 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3216.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:56:03.230 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:56:03.230 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 19:56:03.230 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:56:03.232 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3215.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5640>,socket_mon =>
#Ref<0.155928093.3973578754.74157>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3216.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:56:03.232 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3216.1>,connection_down}
2022-06-27 19:56:06.781 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:56:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:56:06.782 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 19:56:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:56:06.783 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5445,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:56:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:56:10.508 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:56:13.233 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:56:13.469 1 [info] <0.3219.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:56:13.470 1 [info] <0.3219.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.3218.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:56:13.700 1 [error] <0.3218.1>@http2_client:handle_settings:822
gen_server <0.3218.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:56:13.702 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3219.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:56:13.702 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:56:13.702 1 [error] <0.3218.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3218.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:56:13.703 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:56:13.703 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:56:13.703 1 [error] <0.3219.1>@Undefined:Undefined:Undefined
gen_server <0.3219.1> terminated with reason: connection_down
2022-06-27 19:56:13.703 1 [error] <0.3219.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3219.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:56:13.704 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3218.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5641>,socket_mon =>
#Ref<0.155928093.3973578754.74320>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3219.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:56:13.705 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3219.1>,connection_down}
2022-06-27 19:56:20.642 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:56:23.705 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:56:23.980 1 [info] <0.3222.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:56:23.981 1 [info] <0.3222.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.3221.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:56:24.250 1 [error] <0.3221.1>@http2_client:handle_settings:822
gen_server <0.3221.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:56:24.251 1 [error] <0.3221.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3221.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 19:56:24.252 1 [error] <0.3222.1>@Undefined:Undefined:Undefined
gen_server <0.3222.1> terminated with reason: connection_down
2022-06-27 19:56:24.252 1 [error] <0.3222.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3222.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:56:24.254 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3222.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:56:24.254 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:56:24.255 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:56:24.255 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:56:24.256 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3221.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.115.118",last_stream => 1,owner =>
```



```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5642>,socket_mon =>
#Ref<0.155928093.3973578754.74501>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3222.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:56:24.257 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3222.1>,connection_down}
2022-06-27 19:56:29.396 1 [info] <0.1662.0>@blockchain_worker:start_sync:
{888,13} new block sync starting with Pid: <0.3224.1>, Ref:
#Ref<0.155928093.3973578754.74596>, Peer: "/p2p/
11M5DjgzLrUmVh1jhZyQmieTh72PD9U3jH6Qhy9zWU4zoB4cTr"
2022-06-27 19:56:30.795 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:56:31.728 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11M5DjgzLrUmVh1jhZyQmieTh72PD9U3jH6Qhy9zWU4zoB4cTr" informed us of
our observed address "/ip4/80.77.186.186/tcp/25647"
2022-06-27 19:56:34.258 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:56:34.591 1 [info] <0.3241.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:56:34.593 1 [info] <0.3241.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.3240.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 19:56:34.915 1 [error] <0.3240.1>@http2_client:handle_settings:822
gen_server <0.3240.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:56:34.917 1 [error] <0.3240.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3240.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:56:34.917 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3241.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:56:34.918 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:56:34.919 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:56:34.920 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:56:34.920 1 [error] <0.3241.1>@Undefined:Undefined:Undefined
gen_server <0.3241.1> terminated with reason: connection_down
2022-06-27 19:56:34.921 1 [error] <0.3241.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3241.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:56:34.924 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3240.1>,{function_clause,
[ {http2_client,handle_settings,
[ [],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {53,
{<<":authority">>,<<"3.104.32.11">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5648>,socket_mon =>
#Ref<0.155928093.3973578754.74746>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3241.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}}
2022-06-27 19:56:34.926 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3241.1>,connection_down}
2022-06-27 19:56:36.783 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:56:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:56:36.784 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:56:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:56:36.786 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=5449,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:56:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:56:40.952 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:56:44.923 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:56:45.085 1 [info] <0.3244.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:56:45.088 1 [info] <0.3244.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.3243.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:56:45.245 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3244.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:56:45.245 1 [error] <0.3243.1>@http2_client:handle_settings:822
gen_server <0.3243.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 19:56:45.246 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 19:56:45.247 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 19:56:45.247 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 19:56:45.248 1 [error] <0.3243.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.3243.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 19:56:45.248 1 [error] <0.3244.1>@Undefined:Undefined:Undefined gen\_server <0.3244.1> terminated with reason: connection\_down

2022-06-27 19:56:45.249 1 [error] <0.3244.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.3244.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 19:56:45.252 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3243.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.131.232.233",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5649>,socket\_mon => #Ref<0.155928093.3974103041.108076>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.3244.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport =>

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 19:56:45.253 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3244.1>,connection_down}
2022-06-27 19:56:51.088 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:56:55.250 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:56:55.341 1 [info] <0.3252.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:56:55.342 1 [info] <0.3252.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.3251.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:56:55.426 1 [error] <0.3251.1>@http2_client:handle_settings:822
gen_server <0.3251.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:56:55.428 1 [error] <0.3251.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3251.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:56:55.429 1 [error] <0.3252.1>@Undefined:Undefined:Undefined
gen_server <0.3252.1> terminated with reason: connection_down
2022-06-27 19:56:55.430 1 [error] <0.3252.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3252.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:56:55.430 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3252.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:56:55.430 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:56:55.431 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:56:55.431 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:56:55.433 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3251.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5650>,socket_mon =>
```

```
#Ref<0.155928093.3974103041.108195>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3252.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 19:56:55.434 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3252.1>,connection_down}
2022-06-27 19:57:01.238 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:57:05.433 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:57:06.785 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:57:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:57:06.786 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:57:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:57:06.787 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5453,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:57:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:57:11.388 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:57:21.535 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```



2022-06-27 19:57:21.681 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for peerbook <0.1638.0>  
2022-06-27 19:57:30.156 1 [info] <0.1662.0>@blockchain\_worker:handle\_info: {673,53} block sync down: normal  
2022-06-27 19:57:31.692 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:57:35.439 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[{"miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,719}]}],  
{"miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}],  
{"miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}],  
{"gen\_statem,loop\_state\_callback,11,[{"file,"gen\_statem.erl"},{line,1203}]}],  
{"proc\_lib,init\_p\_do\_apply,3,[{"file,"proc\_lib.erl"},{line,226}]}]]  
2022-06-27 19:57:35.439 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:57:35.441 1 [error] <0.3279.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.3279.1> with 0 neighbours exited with reason: timeout in gen\_server:init\_it/6 line 407  
2022-06-27 19:57:35.443 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3279.1>,timeout}  
2022-06-27 19:57:36.789 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 19:57:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 19:57:36.789 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 19:57:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 19:57:36.790 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5457,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 19:57:36 GMT">>,<<"txnb">> => 0}}

```
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:57:41.835 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:57:45.442 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:57:46.675 1 [info] <0.3286.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:57:46.676 1 [info] <0.3286.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.3285.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:57:46.897 1 [error] <0.3285.1>@http2_client:handle_settings:822
gen_server <0.3285.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:57:46.898 1 [error] <0.3285.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3285.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:57:46.899 1 [error] <0.3286.1>@Undefined:Undefined:Undefined
gen_server <0.3286.1> terminated with reason: connection_down
2022-06-27 19:57:46.899 1 [error] <0.3286.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3286.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:57:46.899 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3286.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:57:46.899 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:57:46.900 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:57:46.900 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:57:46.901 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3285.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5652>,socket_mon =>
#Ref<0.155928093.3974103041.108850>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3286.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:57:46.902 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3286.1>,connection_down} 2022-06-27
19:57:51.975 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 19:57:56.902 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:57:57.064 1 [info] <0.3290.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:57:57.065 1 [info] <0.3290.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.3289.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:57:57.222 1 [error] <0.3289.1>@http2_client:handle_settings:822
gen_server <0.3289.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:57:57.226 1 [error] <0.3289.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3289.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:57:57.226 1 [error] <0.3290.1>@Undefined:Undefined:Undefined
gen_server <0.3290.1> terminated with reason: connection_down
2022-06-27 19:57:57.228 1 [error] <0.3290.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3290.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:57:57.228 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3290.1>,{rcv,10000},infinity]}}}, Stack:[{gen_server,call,3,
```

```
{file,"gen_server.erl"},{line,247}}},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:57:57.228 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:57:57.230 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:57:57.230 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:57:57.234 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3289.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5653>,socket_mon =>
#Ref<0.155928093.3974103041.108968>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3290.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 19:57:57.235 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3290.1>,connection_down}
2022-06-27 19:58:02.118 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:58:06.791 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:58:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:58:06.791 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:58:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:58:06.792 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5461,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:58:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:58:07.233 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:58:07.470 1 [info] <0.3314.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:58:07.471 1 [info] <0.3314.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.3313.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:58:07.701 1 [error] <0.3313.1>@http2_client:handle_settings:822
gen_server <0.3313.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:58:07.703 1 [error] <0.3313.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3313.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:58:07.703 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3314.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:58:07.703 1 [error] <0.3314.1>@Undefined:Undefined:Undefined
gen_server <0.3314.1> terminated with reason: connection_down
2022-06-27 19:58:07.704 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:58:07.704 1 [error] <0.3314.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3314.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:58:07.704 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:58:07.705 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 19:58:07.708 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3313.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5654>,socket_mon =>
#Ref<0.155928093.3974103041.109116>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3314.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:58:07.709 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3314.1>,connection_down}
2022-06-27 19:58:12.268 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:58:17.707 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:58:17.799 1 [info] <0.3321.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:58:17.800 1 [info] <0.3321.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```



```
<<"52.210.14.128">>,http_connection => <0.3320.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:58:17.885 1 [error] <0.3320.1>@http2_client:handle_settings:822
gen_server <0.3320.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:58:17.886 1 [error] <0.3320.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3320.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:58:17.887 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3321.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:58:17.887 1 [error] <0.3321.1>@Undefined:Undefined:Undefined
gen_server <0.3321.1> terminated with reason: connection_down
2022-06-27 19:58:17.887 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:58:17.887 1 [error] <0.3321.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3321.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:58:17.887 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 19:58:17.887 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:58:17.888 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3320.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"52.210.14.128">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "52.210.14.128",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5655>,socket\_mon => #Ref<0.155928093.3974103041.109217>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.3321.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 19:58:17.888 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3321.1>,connection\_down}  
2022-06-27 19:58:22.422 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 19:58:27.890 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.24.161.210":  
{gateway\_validators\_req\_v1\_pb,1}

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2022-06-27 19:58:28.226 1 [info] <0.3324.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:58:28.229 1 [info] <0.3324.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.3323.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:58:28.565 1 [error] <0.3323.1>@http2_client:handle_settings:822
gen_server <0.3323.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:58:28.566 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3324.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:58:28.567 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:58:28.567 1 [error] <0.3323.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3323.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:58:28.567 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 19:58:28.567 1 [error] <0.3324.1>@Undefined:Undefined:Undefined gen\_server <0.3324.1> terminated with reason: connection\_down  
2022-06-27 19:58:28.567 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 19:58:28.568 1 [error] <0.3324.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.3324.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 19:58:28.569 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3323.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {54, {<<":authority">>,<<"3.24.161.210">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.24.161.210",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5656>,socket\_mon => #Ref<0.155928093.3974103041.109320>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.3324.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}  
2022-06-27 19:58:28.569 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3324.1>,connection\_down} 2022-06-27 19:58:32.558 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

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2022-06-27 19:58:36.783 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:58:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:58:36.784 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:58:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:58:36.786 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5465,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:58:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:58:38.570 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:58:38.807 1 [info] <0.3327.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:58:38.808 1 [info] <0.3327.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.3326.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:58:39.039 1 [error] <0.3326.1>@http2_client:handle_settings:822
gen_server <0.3326.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:58:39.043 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3327.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl"},{line,418}}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:58:39.043 1 [error] <0.3326.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3326.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:58:39.044 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:58:39.044 1 [error] <0.3327.1>@Undefined:Undefined:Undefined
gen_server <0.3327.1> terminated with reason: connection_down
2022-06-27 19:58:39.045 1 [error] <0.3327.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3327.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:58:39.045 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:58:39.045 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:58:39.048 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3326.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.215.75.202">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5657>,socket_mon =>
#Ref<0.155928093.3974103041.109436>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3327.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:58:39.049 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3327.1>,connection_down}
2022-06-27 19:58:42.711 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:58:49.048 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:58:49.378 1 [info] <0.3331.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:58:49.379 1 [info] <0.3331.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.3330.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:58:49.703 1 [error] <0.3330.1>@http2_client:handle_settings:822
gen_server <0.3330.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 19:58:49.704 1 [error] <0.3330.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3330.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:58:49.705 1 [error] <0.3331.1>@Undefined:Undefined:Undefined
gen_server <0.3331.1> terminated with reason: connection_down
2022-06-27 19:58:49.705 1 [error] <0.3331.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3331.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:58:49.705 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3331.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:58:49.705 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:58:49.706 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:58:49.706 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:58:49.707 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3330.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```



```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5663>,socket_mon =>
#Ref<0.155928093.3974103041.109548>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3331.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:58:49.708 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3331.1>,connection_down}
2022-06-27 19:58:50.497 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112veUZn1yspHTEiRGco12mTTZ12rRa7bbdxG9iFwZiajKkWGixQ" informed us of
our observed address "/ip4/80.77.186.186/tcp/51341"
2022-06-27 19:58:52.846 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:58:59.709 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:59:00.041 1 [info] <0.3349.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:59:00.042 1 [info] <0.3349.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.3348.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:59:00.370 1 [error] <0.3348.1>@http2_client:handle_settings:822
gen_server <0.3348.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:59:00.372 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3349.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:59:00.372 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:59:00.372 1 [error] <0.3348.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3348.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:59:00.372 1 [error] <0.3349.1>@Undefined:Undefined:Undefined
gen_server <0.3349.1> terminated with reason: connection_down
2022-06-27 19:59:00.372 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:59:00.372 1 [error] <0.3349.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3349.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811 2022-06-27
19:59:00.373 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
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validator failed: {error,req_failed}
2022-06-27 19:59:00.374 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3348.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5664>,socket_mon =>
#Ref<0.155928093.3974103041.109638>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3349.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 19:59:00.374 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3349.1>,connection_down}
2022-06-27 19:59:02.992 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:59:06.792 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:59:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:59:06.793 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
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0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:59:06 GMT">>,<<"txnb">> => 0}
2022-06-27 19:59:06.794 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5469,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:59:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:59:10.375 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:59:10.653 1 [info] <0.3369.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:59:10.655 1 [info] <0.3369.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.3366.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:59:10.923 1 [error] <0.3366.1>@http2_client:handle_settings:822
gen_server <0.3366.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:59:10.924 1 [error] <0.3366.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3366.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:59:10.925 1 [error] <0.3369.1>@Undefined:Undefined:Undefined
gen_server <0.3369.1> terminated with reason: connection_down
2022-06-27 19:59:10.925 1 [error] <0.3369.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3369.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:59:10.926 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.3369.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:59:10.926 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:59:10.927 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:59:10.927 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:59:10.928 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3366.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5665>,socket_mon =>
#Ref<0.155928093.3974103041.109805>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3369.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>]],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 19:59:10.928 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3369.1>,connection_down}
2022-06-27 19:59:13.125 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:59:16.184 1 [info] <0.1636.0>@libp2p_peerbook:notify_peers:
{726,5} gossiping out 5 notify peers
2022-06-27 19:59:20.930 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:59:21.162 1 [info] <0.3382.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:59:21.165 1 [info] <0.3382.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.3380.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:59:21.387 1 [error] <0.3380.1>@http2_client:handle_settings:822
gen_server <0.3380.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:59:21.389 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3382.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:59:21.389 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:59:21.390 1 [error] <0.3380.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3380.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:59:21.391 1 [error] <0.3382.1>@Undefined:Undefined:Undefined
gen_server <0.3382.1> terminated with reason: connection_down
2022-06-27 19:59:21.391 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:59:21.391 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:59:21.392 1 [error] <0.3382.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3382.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:59:21.395 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3380.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "44.229.159.157",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5666>,socket_mon =>
#Ref<0.155928093.3974103041.110111>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.3382.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 19:59:21.396 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3382.1>,connection_down}
2022-06-27 19:59:23.265 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:59:31.394 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:59:31.632 1 [info] <0.3385.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:59:31.635 1 [info] <0.3385.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.3384.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:59:31.862 1 [error] <0.3384.1>@http2_client:handle_settings:822
gen_server <0.3384.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:59:31.863 1 [error] <0.3384.1>@http2_client:handle_settings:822
```



```
CRASH REPORT Process <0.3384.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:59:31.864 1 [error] <0.3385.1>@Undefined:Undefined:Undefined
gen_server <0.3385.1> terminated with reason: connection_down
2022-06-27 19:59:31.865 1 [error] <0.3385.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3385.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:59:31.865 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3385.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 19:59:31.865 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:59:31.867 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:59:31.867 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:59:31.869 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3384.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"54.251.77.229">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5667>,socket_mon =>
#Ref<0.155928093.3974103041.110321>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3385.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 19:59:31.870 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3385.1>,connection_down}
2022-06-27 19:59:33.422 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 19:59:36.791 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:59:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 19:59:36.792 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:59:36 GMT">>,<<"txnb">> => 0}
2022-06-27 19:59:36.793 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5473,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 19:59:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 19:59:41.869 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:59:42.204 1 [info] <0.3388.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:59:42.205 1 [info] <0.3388.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2_client,host => <<"3.24.161.210">>,http_connection => <0.3387.1>,scheme => <<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input => gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway_resp_v1_pb,output_stream => false,package => [],queue => {[[],[]]},response_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod: miner_poc_grpc_client_handler
2022-06-27 19:59:42.771 1 [error] <0.3387.1>@http2_client:handle_settings:822 gen_server <0.3387.1> terminated with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:59:42.774 1 [error] <0.3387.1>@http2_client:handle_settings:822 CRASH REPORT Process <0.3387.1> with 0 neighbours crashed with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...},...}) line 822
2022-06-27 19:59:42.775 1 [error] <0.3388.1>@Undefined:Undefined:Undefined gen_server <0.3388.1> terminated with reason: connection_down
2022-06-27 19:59:42.777 1 [error] <0.3388.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.3388.1> with 0 neighbours exited with reason: connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:59:42.777 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3388.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 19:59:42.778 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 19:59:42.779 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:59:42.779 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:59:42.782 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3387.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5668>,socket_mon =>
#Ref<0.155928093.3973316611.178503>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3388.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}}
2022-06-27 19:59:42.783 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.3388.1>,connection_down} 2022-06-27
19:59:43.558 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 19:59:52.782 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 19:59:53.115 1 [info] <0.3391.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 19:59:53.117 1 [info] <0.3391.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.3390.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 19:59:53.442 1 [error] <0.3390.1>@http2_client:handle_settings:822
gen_server <0.3390.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:59:53.442 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3391.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 19:59:53.443 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 19:59:53.443 1 [error] <0.3390.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3390.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 19:59:53.443 1 [error] <0.3391.1>@Undefined:Undefined:Undefined
gen_server <0.3391.1> terminated with reason: connection_down
2022-06-27 19:59:53.444 1 [error] <0.3391.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3391.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 19:59:53.444 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 19:59:53.444 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 19:59:53.445 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3390.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],}],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5669>,socket_mon =>
#Ref<0.155928093.3973578754.77118>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.3391.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 19:59:53.446 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3391.1>,connection_down}
2022-06-27 19:59:53.702 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:00:03.447 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:00:03.727 1 [info] <0.3395.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:00:03.728 1 [info] <0.3395.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.3394.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:00:03.845 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:00:04.002 1 [error] <0.3394.1>@http2_client:handle_settings:822
gen_server <0.3394.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:00:04.004 1 [error] <0.3394.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3394.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:00:04.004 1 [error] <0.3395.1>@Undefined:Undefined:Undefined
gen_server <0.3395.1> terminated with reason: connection_down
2022-06-27 20:00:04.005 1 [error] <0.3395.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3395.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 20:00:04.005 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3395.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 20:00:04.006 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 20:00:04.006 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 20:00:04.006 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 20:00:04.008 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3394.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"18.228.158.83">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5670>,socket_mon =>
#Ref<0.155928093.3973578754.77177>,state => open,stream_count =>
```



```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3395.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 20:00:04.008 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3395.1>,connection_down}
2022-06-27 20:00:06.789 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:00:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:00:06.790 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:00:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:00:06.791 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5477,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:00:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:00:13.992 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:00:14.009 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:00:14.092 1 [info] <0.3398.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:00:14.094 1 [info] <0.3398.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.3397.1>,scheme => <<"http">>},encoder
```

```
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:00:14.166 1 [error] <0.3397.1>@http2_client:handle_settings:822
gen_server <0.3397.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:00:14.167 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3398.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:00:14.167 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:00:14.168 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:00:14.168 1 [error] <0.3397.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3397.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:00:14.168 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:00:14.168 1 [error] <0.3398.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.3398.1> terminated with reason: connection_down
2022-06-27 20:00:14.169 1 [error] <0.3398.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3398.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:00:14.170 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3397.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5671>,socket_mon =>
#Ref<0.155928093.3973578754.77231>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3398.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 20:00:14.170 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3398.1>,connection_down}
2022-06-27 20:00:24.131 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:00:24.170 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:00:24.445 1 [info] <0.3470.1>@grpc_client_stream_custom:init:
```

```
{131,9} init stream for RPC validators and type unary
2022-06-27 20:00:24.446 1 [info] <0.3470.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.3467.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:00:24.715 1 [error] <0.3467.1>@http2_client:handle_settings:822
gen_server <0.3467.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:00:24.716 1 [error] <0.3467.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3467.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:00:24.716 1 [error] <0.3470.1>@Undefined:Undefined:Undefined
gen_server <0.3470.1> terminated with reason: connection_down
2022-06-27 20:00:24.717 1 [error] <0.3470.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3470.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:00:24.717 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3470.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:00:24.718 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}  
2022-06-27 20:00:24.718 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 20:00:24.718 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:00:24.720 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3467.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {56, {<<":authority">>,<<"54.207.131.103">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "54.207.131.103",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5685>,socket\_mon => #Ref<0.155928093.3974103041.111512>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.3470.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 20:00:24.722 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3470.1>,connection\_down} 2022-06-27 20:00:26.802 1 [warning] <0.1643.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/11zASd6YvSybmzDeomaDVZudmHh5FEdVED6yU2Bv7PnWQeSfqkh": [{"/

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ip4/151.230.140.135/tcp/44158",timeout}]
2022-06-27 20:00:34.279 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:00:34.720 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:00:34.961 1 [info] <0.3474.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:00:34.963 1 [info] <0.3474.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.3473.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:00:35.198 1 [error] <0.3473.1>@http2_client:handle_settings:822
gen_server <0.3473.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:00:35.203 1 [error] <0.3473.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3473.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:00:35.204 1 [error] <0.3474.1>@Undefined:Undefined:Undefined
gen_server <0.3474.1> terminated with reason: connection_down
2022-06-27 20:00:35.203 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3474.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

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[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:00:35.204 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:00:35.205 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:00:35.205 1 [error] <0.3474.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3474.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:00:35.207 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:00:35.214 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3473.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.215.75.202">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5687>,socket_mon =>
#Ref<0.155928093.3973054468.216649>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3474.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
```

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{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:00:35.215 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3474.1>,connection_down}
2022-06-27 20:00:36.792 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:00:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:00:36.793 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:00:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:00:36.794 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5481,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:00:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:00:44.428 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:00:45.210 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:00:45.488 1 [info] <0.3477.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:00:45.490 1 [info] <0.3477.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.3476.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:00:45.758 1 [error] <0.3476.1>@http2_client:handle_settings:822
```



```
gen_server <0.3476.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:00:45.759 1 [error] <0.3476.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3476.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:00:45.760 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3477.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:00:45.760 1 [error] <0.3477.1>@Undefined:Undefined:Undefined
gen_server <0.3477.1> terminated with reason: connection_down
2022-06-27 20:00:45.760 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:00:45.760 1 [error] <0.3477.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3477.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:00:45.761 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:00:45.761 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:00:45.763 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3476.1>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5688>,socket_mon =>
#Ref<0.155928093.3974103041.111919>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3477.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:00:45.763 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3477.1>,connection_down}
2022-06-27 20:00:54.582 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:00:55.764 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:00:55.932 1 [info] <0.3480.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:00:55.933 1 [info] <0.3480.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.3479.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:00:56.093 1 [error] <0.3479.1>@http2_client:handle_settings:822
gen_server <0.3479.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:00:56.094 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3480.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:00:56.094 1 [error] <0.3479.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3479.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:00:56.094 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:00:56.094 1 [error] <0.3480.1>@Undefined:Undefined:Undefined
gen_server <0.3480.1> terminated with reason: connection_down
2022-06-27 20:00:56.095 1 [error] <0.3480.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3480.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:00:56.095 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:00:56.095 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:00:56.098 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3479.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.13.130.184",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5689>,socket\_mon => #Ref<0.155928093.3974103041.112138>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.3480.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 20:00:56.098 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3480.1>,connection\_down}  
2022-06-27 20:01:04.725 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:01:06.098 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.122.38.248":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:01:06.793 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>

```
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:01:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:01:06.794 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:01:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:01:06.795 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5485,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:01:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:01:07.196 1 [info] <0.3483.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:01:07.198 1 [info] <0.3483.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.3482.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:01:07.276 1 [error] <0.3482.1>@http2_client:handle_settings:822
gen_server <0.3482.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:01:07.277 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3483.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,{{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,{{file,"proc_lib.erl"},{line,226}}}]
2022-06-27 20:01:07.278 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:01:07.278 1 [error] <0.3482.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3482.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:01:07.279 1 [error] <0.3483.1>@Undefined:Undefined:Undefined
gen_server <0.3483.1> terminated with reason: connection_down
2022-06-27 20:01:07.279 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:01:07.279 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:01:07.280 1 [error] <0.3483.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3483.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:01:07.285 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3482.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.122.38.248">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5690>,socket_mon =>
#Ref<0.155928093.3974103041.112389>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.3483.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 20:01:07.286 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3483.1>,connection_down}
2022-06-27 20:01:14.878 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:01:17.282 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:01:17.365 1 [info] <0.3486.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:01:17.366 1 [info] <0.3486.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.3485.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:01:17.441 1 [error] <0.3485.1>@http2_client:handle_settings:822
gen_server <0.3485.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:01:17.442 1 [error] <0.3485.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3485.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:01:17.443 1 [error] <0.3486.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.3486.1> terminated with reason: connection_down
2022-06-27 20:01:17.444 1 [error] <0.3486.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3486.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:01:17.444 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3486.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:01:17.444 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:01:17.445 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:01:17.445 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:01:17.446 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3485.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```



```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5691>,socket_mon =>
#Ref<0.155928093.3974103041.112616>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3486.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:01:17.447 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3486.1>,connection_down}
2022-06-27 20:01:25.028 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:01:27.447 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:01:27.677 1 [info] <0.3512.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:01:27.679 1 [info] <0.3512.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.3511.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:01:28.193 1 [error] <0.3511.1>@http2_client:handle_settings:822
gen_server <0.3511.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:01:28.194 1 [error] <0.3511.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3511.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:01:28.195 1 [error] <0.3512.1>@Undefined:Undefined:Undefined
gen_server <0.3512.1> terminated with reason: connection_down
2022-06-27 20:01:28.196 1 [error] <0.3512.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3512.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:01:28.197 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3512.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:01:28.197 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:01:28.198 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:01:28.198 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:01:28.201 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3511.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>, <<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>, <<"application/grpc+proto">>}}, {53,
{<<":authority">>, <<"54.70.239.5">>}}, {63, {<<":path">>, <<"/helium.gateway/
validators">>}}], host => "54.70.239.5", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.5692>, socket_mon =>
#Ref<0.155928093.3974103041.112888>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.3512.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}], timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file, "http2_client.erl"}, {line, 822}],
{http2_client, handle_packet, 2, [{file, "http2_client.erl"}, {line, 648}]},
{gen_server, try_dispatch, 4, [{file, "gen_server.erl"}, {line, 695}]},
{gen_server, handle_msg, 6, [{file, "gen_server.erl"}, {line, 771}]},
{proc_lib, init_p_do_apply, 3, [{file, "proc_lib.erl"}, {line, 226}]}}]
2022-06-27 20:01:28.201 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT', <0.3512.1>, connection_down}
2022-06-27 20:01:35.166 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:01:36.791 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0, <<"dwnb">> => 0, <<"rxfw">> =>
0, <<"rxnb">> => 0, <<"rxok">> => 0, <<"temp">> => 0.0, <<"time">> =>
<<"2022-06-27 20:01:36 GMT">>, <<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:01:36.791 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0, <<"dwnb">> => 0, <<"rxfw">> =>
0, <<"rxnb">> => 0, <<"rxok">> => 0, <<"temp">> => 0.0, <<"time">> =>
<<"2022-06-27 20:01:36 GMT">>, <<"txnb">> => 0}
2022-06-27 20:01:36.793 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251, ip={172,17,0,1}, port=56833, sent=0, receiv
ed=5489, dropped=0, status=#{<<"ackr">> => 0.0, <<"dwnb">> => 0, <<"rxfw">>
=> 0, <<"rxnb">> => 0, <<"rxok">> => 0, <<"temp">> => 0.0, <<"time">> =>
<<"2022-06-27 20:01:36 GMT">>, <<"txnb">> =>
0}, rtt_samples=[], rtt=5000000}
2022-06-27 20:01:38.201 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

unary request via new connection to ip "35.82.239.134":

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 20:01:38.432 1 [info] <0.3523.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 20:01:38.433 1 [info] <0.3523.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"35.82.239.134">>,http_connection => <0.3522.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 20:01:38.666 1 [error] <0.3522.1>@http2_client:handle_settings:822
```

```
gen_server <0.3522.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 20:01:38.667 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.3523.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 20:01:38.667 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
```

```
2022-06-27 20:01:38.667 1 [error] <0.3522.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.3522.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 20:01:38.668 1 [error] <0.3523.1>@Undefined:Undefined:Undefined
gen_server <0.3523.1> terminated with reason: connection_down
2022-06-27 20:01:38.668 1 [error] <0.3523.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3523.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:01:38.668 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:01:38.668 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:01:38.670 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3522.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5693>,socket_mon =>
#Ref<0.155928093.3974103041.113142>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3523.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:01:38.670 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3523.1>,connection_down} 2022-06-27
```

```
20:01:45.328 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:01:48.671 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:01:48.898 1 [info] <0.3526.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:01:48.899 1 [info] <0.3526.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.3525.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:01:49.122 1 [error] <0.3525.1>@http2_client:handle_settings:822
gen_server <0.3525.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:01:49.124 1 [error] <0.3525.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3525.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:01:49.125 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3526.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 20:01:49.125 1 [error] <0.3526.1>@Undefined:Undefined:Undefined
gen_server <0.3526.1> terminated with reason: connection_down
2022-06-27 20:01:49.125 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:01:49.125 1 [error] <0.3526.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3526.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:01:49.126 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:01:49.126 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:01:49.128 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3525.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5694>,socket_mon =>
#Ref<0.155928093.3974103041.113369>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3526.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}}
2022-06-27 20:01:49.128 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3526.1>,connection_down} 2022-06-27
20:01:55.485 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:01:59.129 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:01:59.211 1 [info] <0.3529.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:01:59.212 1 [info] <0.3529.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.3528.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:01:59.391 1 [error] <0.3528.1>@http2_client:handle_settings:822
gen_server <0.3528.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:01:59.392 1 [error] <0.3528.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3528.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:01:59.393 1 [error] <0.3529.1>@Undefined:Undefined:Undefined
gen_server <0.3529.1> terminated with reason: connection_down
2022-06-27 20:01:59.393 1 [error] <0.3529.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3529.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:01:59.394 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3529.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[[file,"gen_server.erl"],{line,247}]}],
{grpc_client_stream_custom,process_response,2,
```



```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 20:01:59.394 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:01:59.395 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:01:59.395 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:01:59.397 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3528.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5695>,socket_mon =>
#Ref<0.155928093.3974103041.113592>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3529.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:01:59.398 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3529.1>,connection_down}
2022-06-27 20:02:05.625 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:02:06.796 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:02:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:02:06.797 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:02:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:02:06.800 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5493,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:02:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:02:09.398 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:02:09.679 1 [info] <0.3532.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:02:09.681 1 [info] <0.3532.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.3531.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 20:02:09.956 1 [error] <0.3531.1>@http2_client:handle_settings:822
gen_server <0.3531.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:02:09.959 1 [error] <0.3531.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3531.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:02:09.959 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3532.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:02:09.960 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:02:09.961 1 [error] <0.3532.1>@Undefined:Undefined:Undefined
gen_server <0.3532.1> terminated with reason: connection_down
2022-06-27 20:02:09.961 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:02:09.962 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:02:09.962 1 [error] <0.3532.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3532.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:02:09.965 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.3531.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"18.228.115.118">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5696>,socket_mon =>
#Ref<0.155928093.3974103041.113858>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3532.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:02:09.966 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3532.1>,connection_down}
2022-06-27 20:02:15.765 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:02:19.965 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:02:20.094 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 1,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAGbQxUpAO8EAE4g9mMrPhszOlhHOK4LQ8x/
hlrhdFiy+xV4bZhZBQfGNSap+uxfdg==">>,<<"datr">> =>
<<"SF12BW125">>,<<"foff">> => 2111,<<"freq">> => 868.3,<<"jver">> =>
1,<<"lsnr">> => -20.8,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">>
```

```
=> 1,<<"rssi">> => -107,<<"rssi">> => -127,<<"size">> => 52,<<"stat">> =>
1,<<"tmst">> => 3001134065}} from 12291671073248440251 on 35152
2022-06-27 20:02:20.296 1 [info] <0.3535.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:02:20.299 1 [info] <0.3535.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.3534.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:02:21.682 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1639.0>
2022-06-27 20:02:22.208 1 [error] <0.3534.1>@http2_client:handle_settings:822
gen_server <0.3534.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:02:22.210 1 [error] <0.3534.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3534.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:02:22.211 1 [error] <0.3535.1>@Undefined:Undefined:Undefined
gen_server <0.3535.1> terminated with reason: connection_down
2022-06-27 20:02:22.212 1 [error] <0.3535.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3535.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:02:22.213 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3535.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:02:22.214 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:02:22.215 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:02:22.215 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:02:22.218 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3534.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"13.237.155.172">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5697>,socket_mon =>
#Ref<0.155928093.3974103041.114081>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3535.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]]}
```

2022-06-27 20:02:22.219 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3535.1>,connection\_down} 2022-06-27 20:02:25.892 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:02:32.218 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "35.82.239.134": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:02:32.447 1 [info] <0.3553.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 20:02:32.449 1 [info] <0.3553.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"35.82.239.134">>,http\_connection => <0.3546.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 20:02:32.671 1 [error] <0.3546.1>@http2\_client:handle\_settings:822 gen\_server <0.3546.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:02:32.672 1 [error] <0.3546.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.3546.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:02:32.673 1 [error] <0.3553.1>@Undefined:Undefined:Undefined gen\_server <0.3553.1> terminated with reason: connection\_down

2022-06-27 20:02:32.674 1 [error] <0.3553.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.3553.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:02:32.675 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.3553.1>,{rcv,10000},infinity]}}, Stack: [{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6,

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[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 20:02:32.675 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:02:32.676 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:02:32.676 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:02:32.677 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3546.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5698>,socket_mon =>
#Ref<0.155928093.3974103041.114435>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3553.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[file,"http2_client.erl"],{line,822}]},
```



```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:02:32.678 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3553.1>,connection_down}
2022-06-27 20:02:36.048 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:02:36.798 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:02:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:02:36.799 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> =>
1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:02:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:02:36.801 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5497,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:02:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:02:42.678 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:02:42.913 1 [info] <0.3572.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:02:42.915 1 [info] <0.3572.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.3571.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

2022-06-27 20:02:43.145 1 [error] <0.3571.1>@http2\_client:handle\_settings:822  
gen\_server <0.3571.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 20:02:43.148 1 [error] <0.3571.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.3571.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 20:02:43.149 1 [error] <0.3572.1>@Undefined:Undefined:Undefined  
gen\_server <0.3572.1> terminated with reason: connection\_down

2022-06-27 20:02:43.150 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.3572.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]

2022-06-27 20:02:43.150 1 [error] <0.3572.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.3572.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:02:43.150 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 20:02:43.151 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 20:02:43.151 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 20:02:43.152 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst

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in setup state: Type: info, Msg: {'EXIT',<0.3571.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5699>,socket_mon =>
#Ref<0.155928093.3973316611.179467>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3572.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:02:43.153 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3572.1>,connection_down}
2022-06-27 20:02:46.195 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:02:53.154 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:02:53.426 1 [info] <0.3575.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:02:53.427 1 [info] <0.3575.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.3574.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:02:53.696 1 [error] <0.3574.1>@http2_client:handle_settings:822
gen_server <0.3574.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:02:53.699 1 [error] <0.3574.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3574.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:02:53.700 1 [error] <0.3575.1>@Undefined:Undefined:Undefined
gen_server <0.3575.1> terminated with reason: connection_down
2022-06-27 20:02:53.700 1 [error] <0.3575.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3575.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:02:53.701 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3575.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:02:53.701 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:02:53.702 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

2022-06-27 20:02:53.702 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:02:53.704 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3574.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"13.209.94.225">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}]}]},host => "13.209.94.225",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5700>,socket\_mon => #Ref<0.155928093.3974103041.114943>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.3575.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 20:02:53.705 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3575.1>,connection\_down}

2022-06-27 20:02:56.325 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:03:03.705 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.210.14.128":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:03:03.796 1 [info] <0.3578.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

```
2022-06-27 20:03:03.797 1 [info] <0.3578.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.3577.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:03:03.883 1 [error] <0.3577.1>@http2_client:handle_settings:822
gen_server <0.3577.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:03:03.885 1 [error] <0.3577.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3577.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:03:03.885 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3578.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:03:03.885 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:03:03.885 1 [error] <0.3578.1>@Undefined:Undefined:Undefined
gen_server <0.3578.1> terminated with reason: connection_down
2022-06-27 20:03:03.886 1 [error] <0.3578.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.3578.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:03:03.886 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 20:03:03.886 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 20:03:03.888 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.3577.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,  
{<<":authority">>,<<"52.210.14.128">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "52.210.14.128",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5701>,socket\_mon =>  
#Ref<0.155928093.3974103041.115176>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.3578.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}]}]}  
2022-06-27 20:03:03.888 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.3578.1>,connection\_down} 2022-06-27  
20:03:06.485 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5}  
PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:03:06.796 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA

```
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:03:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:03:06.797 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:03:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:03:06.798 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5501,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:03:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:03:13.888 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:03:13.978 1 [info] <0.3581.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:03:13.979 1 [info] <0.3581.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.3580.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:03:14.064 1 [error] <0.3580.1>@http2_client:handle_settings:822
gen_server <0.3580.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:03:14.066 1 [error] <0.3580.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3580.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:03:14.066 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```



```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3581.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:03:14.066 1 [error] <0.3581.1>@Undefined:Undefined:Undefined
gen_server <0.3581.1> terminated with reason: connection_down
2022-06-27 20:03:14.066 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:03:14.066 1 [error] <0.3581.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3581.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:03:14.067 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:03:14.067 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:03:14.069 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3580.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5702>,socket_mon =>
#Ref<0.155928093.3974103041.115388>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3581.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 20:03:14.070 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3581.1>,connection_down}
2022-06-27 20:03:16.635 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:03:24.070 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:03:24.153 1 [info] <0.3585.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:03:24.155 1 [info] <0.3585.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.3584.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:03:24.236 1 [error] <0.3584.1>@http2_client:handle_settings:822
gen_server <0.3584.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:03:24.237 1 [error] <0.3584.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3584.1> with 0 neighbours crashed with reason: no
```

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function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:03:24.238 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3585.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:03:24.238 1 [error] <0.3585.1>@Undefined:Undefined:Undefined
gen_server <0.3585.1> terminated with reason: connection_down
2022-06-27 20:03:24.238 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:03:24.238 1 [error] <0.3585.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3585.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:03:24.239 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:03:24.239 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:03:24.242 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3584.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {52,
{<<":authority">>,<<"3.72.215.7">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}}], host => "3.72.215.7", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.5703>, socket_mon =>
#Ref<0.155928093.3973578754.78158>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.3585.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file,"http2_client.erl"}, {line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"}, {line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"}, {line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"}, {line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"}, {line,226}]]}]
2022-06-27 20:03:24.243 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3585.1>,connection_down} 2022-06-27
20:03:26.785 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:03:34.241 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:03:34.325 1 [info] <0.3593.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:03:34.326 1 [info] <0.3593.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.3592.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:03:34.406 1 [error] <0.3592.1>@http2_client:handle_settings:822
gen_server <0.3592.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 20:03:34.409 1 [error] <0.3592.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3592.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 20:03:34.410 1 [error] <0.3593.1>@Undefined:Undefined:Undefined
gen_server <0.3593.1> terminated with reason: connection_down
2022-06-27 20:03:34.411 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3593.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:03:34.411 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:03:34.411 1 [error] <0.3593.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3593.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:03:34.413 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:03:34.413 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:03:34.416 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3592.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5704>,socket_mon =>
#Ref<0.155928093.3974103041.115852>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3593.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 20:03:34.417 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3593.1>,connection_down}
2022-06-27 20:03:36.800 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:03:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:03:36.801 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:03:36 GMT">>,<<"txnb">> => 0}
2022-06-27 20:03:36.802 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5504,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:03:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:03:36.918 1 [info]
```

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:03:41.754 1 [info] <0.3633.1>@libp2p\_transport\_proxy:connect: {38,5} init proxy with ["/p2p/112ggfHaRfeozWYaKqZ22v2rnwVRhUcBaBU4CRTH6Ud2RgBs23bo","/p2p/112JCDxLbPqXGKt7iCaywBBf4vQM7RPWA65iGYLPeKUeJtdWWNkR"]  
2022-06-27 20:03:41.759 1 [error] <0.3633.1>@libp2p\_transport\_proxy:connect\_to:{69,13} failed to dial proxy server "/p2p/112ggfHaRfeozWYaKqZ22v2rnwVRhUcBaBU4CRTH6Ud2RgBs23bo" not\_found  
2022-06-27 20:03:41.761 1 [warning] <0.1639.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/112JCDxLbPqXGKt7iCaywBBf4vQM7RPWA65iGYLPeKUeJtdWWNkR": [{"/p2p/112ggfHaRfeozWYaKqZ22v2rnwVRhUcBaBU4CRTH6Ud2RgBs23bo/p2p-circuit/p2p/112JCDxLbPqXGKt7iCaywBBf4vQM7RPWA65iGYLPeKUeJtdWWNkR",fail\_dial\_proxy}]  
2022-06-27 20:03:44.416 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.30.111.82": {gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:03:44.508 1 [info] <0.3635.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 20:03:44.511 1 [info] <0.3635.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"52.30.111.82">>,http\_connection => <0.3634.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 20:03:44.608 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.3635.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},

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{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:03:44.608 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:03:44.609 1 [error] <0.3634.1>@http2_client:handle_settings:822
gen_server <0.3634.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:03:44.609 1 [error] <0.3634.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3634.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:03:44.610 1 [error] <0.3635.1>@Undefined:Undefined:Undefined
gen_server <0.3635.1> terminated with reason: connection_down
2022-06-27 20:03:44.610 1 [error] <0.3635.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3635.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:03:44.611 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:03:44.611 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:03:44.612 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3634.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/
```



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validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5710>,socket_mon =>
#Ref<0.155928093.3974103041.116456>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3635.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 20:03:44.612 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3635.1>,connection_down}
2022-06-27 20:03:47.062 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:03:54.614 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:03:54.776 1 [info] <0.3638.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:03:54.779 1 [info] <0.3638.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.3637.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:03:54.930 1 [error] <0.3637.1>@http2_client:handle_settings:822
gen_server <0.3637.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 20:03:54.932 1 [error] <0.3637.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3637.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:03:54.932 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3638.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:03:54.932 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:03:54.932 1 [error] <0.3638.1>@Undefined:Undefined:Undefined
gen_server <0.3638.1> terminated with reason: connection_down
2022-06-27 20:03:54.932 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:03:54.932 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:03:54.932 1 [error] <0.3638.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3638.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:03:54.933 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3637.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5711>,socket_mon =>
#Ref<0.155928093.3974103041.116682>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3638.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:03:54.934 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3638.1>,connection_down} 2022-06-27
20:03:57.205 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:04:04.934 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:04:05.215 1 [info] <0.3653.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:04:05.216 1 [info] <0.3653.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.3652.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:04:05.495 1 [error] <0.3652.1>@http2_client:handle_settings:822
gen_server <0.3652.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:04:05.498 1 [error] <0.3652.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3652.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:04:05.498 1 [error] <0.3653.1>@Undefined:Undefined:Undefined
gen_server <0.3653.1> terminated with reason: connection_down
2022-06-27 20:04:05.498 1 [error] <0.3653.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3653.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:04:05.499 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3653.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:04:05.499 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:04:05.499 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:04:05.500 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:04:05.501 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3652.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"18.230.8.198">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5716>,socket_mon =>
#Ref<0.155928093.3974103041.116887>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3653.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:04:05.502 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3653.1>,connection_down}
2022-06-27 20:04:06.800 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:04:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:04:06.800 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:04:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:04:06.802 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5508,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 20:04:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:04:07.361 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:04:09.908 1 [notice]
<0.3658.1>@libp2p_multistream_server:handle_info:{108,13} Failed to handshake
client "/ip4/192.168.5.233/tcp/50586": closed
2022-06-27 20:04:14.449 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 2,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"AE4AAPB+1bNwtDIAACBX+Ywlic0YIGA=">>,<<"datr">> =>
<<"SF7BW125">>,<<"foff">> => 7339,<<"freq">> => 868.5,<<"jver">> =>
1,<<"lsnr">> => -8.5,<<"mid">> => 8,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 1,<<"rssi">> => -108,<<"rssid">> => -116,<<"size">> => 23,<<"stat">> =>
1,<<"tmst">> => 3115499691]}} from 12291671073248440251 on 35152
2022-06-27 20:04:15.503 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:04:15.776 1 [info] <0.3661.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:04:15.778 1 [info] <0.3661.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.3660.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:04:16.039 1 [error] <0.3660.1>@http2_client:handle_settings:822
gen_server <0.3660.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:04:16.040 1 [error] <0.3660.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3660.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 20:04:16.041 1 [error] <0.3661.1>@Undefined:Undefined:Undefined
gen_server <0.3661.1> terminated with reason: connection_down
2022-06-27 20:04:16.041 1 [error] <0.3661.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3661.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:04:16.042 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3661.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:04:16.042 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:04:16.043 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:04:16.043 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:04:16.044 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3660.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.125.32.225",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5719>,socket_mon =>
#Ref<0.155928093.3974103041.117136>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3661.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:04:16.045 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3661.1>,connection_down}
2022-06-27 20:04:17.515 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:04:26.045 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:04:26.137 1 [info] <0.3664.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:04:26.138 1 [info] <0.3664.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.3663.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:04:26.222 1 [error] <0.3663.1>@http2_client:handle_settings:822
gen_server <0.3663.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:04:26.223 1 [error] <0.3663.1>@http2_client:handle_settings:822
```



CRASH REPORT Process <0.3663.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:04:26.223 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:{283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.3664.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]]

2022-06-27 20:04:26.223 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 20:04:26.224 1 [error] <0.3664.1>@Undefined:Undefined:Undefined gen\_server <0.3664.1> terminated with reason: connection\_down

2022-06-27 20:04:26.225 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 20:04:26.225 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:04:26.225 1 [error] <0.3664.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.3664.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:04:26.227 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3663.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

```
{state,0,4096,4096,[],encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5720>,socket_mon =>
#Ref<0.155928093.3974103041.117367>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3664.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:04:26.228 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3664.1>,connection_down} 2022-06-27
20:04:27.665 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:04:36.228 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:04:36.506 1 [info] <0.3667.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:04:36.507 1 [info] <0.3667.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.3666.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:04:36.780 1 [error] <0.3666.1>@http2_client:handle_settings:822
gen_server <0.3666.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:04:36.782 1 [error] <0.3666.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3666.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:04:36.782 1 [error] <0.3667.1>@Undefined:Undefined:Undefined
gen_server <0.3667.1> terminated with reason: connection_down
2022-06-27 20:04:36.783 1 [error] <0.3667.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3667.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:04:36.782 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3667.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:04:36.783 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:04:36.785 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:04:36.785 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:04:36.787 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3666.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"18.228.115.118">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5721>,socket_mon =>
#Ref<0.155928093.3974103041.117598>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3667.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:04:36.788 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3667.1>,connection_down}
2022-06-27 20:04:36.801 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:04:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:04:36.802 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> =>
1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:04:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:04:36.803 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5512,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:04:36 GMT">>,<<"txnb">> =>
```

```
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:04:37.802 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:04:46.788 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:04:47.062 1 [info] <0.3698.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:04:47.063 1 [info] <0.3698.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.3697.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:04:47.332 1 [error] <0.3697.1>@http2_client:handle_settings:822
gen_server <0.3697.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:04:47.333 1 [error] <0.3697.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3697.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:04:47.334 1 [error] <0.3698.1>@Undefined:Undefined:Undefined
gen_server <0.3698.1> terminated with reason: connection_down
2022-06-27 20:04:47.334 1 [error] <0.3698.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3698.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:04:47.335 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3698.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

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{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:04:47.335 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:04:47.336 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:04:47.336 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:04:47.337 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3697.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5722>,socket_mon =>
#Ref<0.155928093.3974103041.118068>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3698.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]}],
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 20:04:47.338 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3698.1>,connection_down}
2022-06-27 20:04:47.952 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:04:57.339 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:04:57.575 1 [info] <0.3703.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:04:57.576 1 [info] <0.3703.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.3702.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:04:57.807 1 [error] <0.3702.1>@http2_client:handle_settings:822
gen_server <0.3702.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:04:57.808 1 [error] <0.3702.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3702.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:04:57.808 1 [error] <0.3703.1>@Undefined:Undefined:Undefined
gen_server <0.3703.1> terminated with reason: connection_down
2022-06-27 20:04:57.809 1 [error] <0.3703.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3703.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:04:57.809 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.3703.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:04:57.810 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:04:57.810 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:04:57.810 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:04:57.812 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3702.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5723>,socket_mon =>
#Ref<0.155928093.3974103041.118286>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3703.1>,server_window => 65528,state =>
```



```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>]],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>]],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:04:57.813 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3703.1>,connection_down}
2022-06-27 20:04:58.092 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:05:06.801 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:05:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:05:06.802 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:05:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:05:06.803 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5516,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:05:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:05:07.813 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:05:08.055 1 [info] <0.3707.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:05:08.056 1 [info] <0.3707.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.3706.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:05:08.242 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:05:08.283 1 [error] <0.3706.1>@http2_client:handle_settings:822
gen_server <0.3706.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:05:08.284 1 [error] <0.3706.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3706.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:05:08.285 1 [error] <0.3707.1>@Undefined:Undefined:Undefined
gen_server <0.3707.1> terminated with reason: connection_down
2022-06-27 20:05:08.285 1 [error] <0.3707.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3707.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:05:08.287 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3707.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:05:08.287 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:05:08.288 1 [warning]
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<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 20:05:08.288 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:05:08.290 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3706.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096, [{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"13.215.75.202">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "13.215.75.202",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5724>,socket\_mon => #Ref<0.155928093.3974103041.118688>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.3707.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}}  
2022-06-27 20:05:08.290 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3707.1>,connection\_down}  
2022-06-27 20:05:18.291 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.89.130.114":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:05:18.385 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

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2022-06-27 20:05:18.524 1 [info] <0.3710.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:05:18.526 1 [info] <0.3710.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.3709.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:05:18.752 1 [error] <0.3709.1>@http2_client:handle_settings:822
gen_server <0.3709.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:05:18.756 1 [error] <0.3709.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3709.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:05:18.756 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3710.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:05:18.757 1 [error] <0.3710.1>@Undefined:Undefined:Undefined
gen_server <0.3710.1> terminated with reason: connection_down
2022-06-27 20:05:18.757 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
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<<"stream create failed">>}}
2022-06-27 20:05:18.758 1 [error] <0.3710.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3710.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:05:18.759 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:05:18.759 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:05:18.762 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3709.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5725>,socket_mon =>
#Ref<0.155928093.3973578754.78821>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3710.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:05:18.763 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3710.1>,connection_down}
2022-06-27 20:05:28.532 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
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12291671073248440251 on 56833

2022-06-27 20:05:28.762 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.72.143.228":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:05:28.846 1 [info] <0.3714.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 20:05:28.847 1 [info] <0.3714.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"3.72.143.228">>,http\_connection => <0.3713.1>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}},name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 20:05:28.924 1 [error] <0.3713.1>@http2\_client:handle\_settings:822 gen\_server <0.3713.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 20:05:28.926 1 [error] <0.3713.1>@http2\_client:handle\_settings:822

CRASH REPORT Process <0.3713.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 20:05:28.928 1 [error] <0.3714.1>@Undefined:Undefined:Undefined

gen\_server <0.3714.1> terminated with reason: connection\_down

2022-06-27 20:05:28.928 1 [error] <0.3714.1>@Undefined:Undefined:Undefined

CRASH REPORT Process <0.3714.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:05:28.930 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.3714.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:05:28.931 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:05:28.932 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:05:28.932 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:05:28.935 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3713.1>,{function_clause,
[{{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5726>,socket_mon =>
#Ref<0.155928093.3974103041.119130>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3714.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}
```

2022-06-27 20:05:28.936 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.3714.1>,connection\_down}  
2022-06-27 20:05:36.804 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:05:36 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 20:05:36.804 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #{<<"ackr">>  
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>  
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:05:36  
GMT">>,<<"txnb">> => 0}  
2022-06-27 20:05:36.805 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=5520,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:05:36 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 20:05:38.686 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:05:38.935 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.237.155.172":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:05:40.276 1 [info] <0.3717.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 20:05:40.279 1 [info] <0.3717.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"13.237.155.172">>,http\_connection => <0.3716.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 20:05:42.494 1 [error] <0.3716.1>@http2\_client:handle\_settings:822  
gen\_server <0.3716.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>



```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 20:05:42.495 1 [error] <0.3716.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3716.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 20:05:42.496 1 [error] <0.3717.1>@Undefined:Undefined:Undefined
gen_server <0.3717.1> terminated with reason: connection_down
2022-06-27 20:05:42.497 1 [error] <0.3717.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3717.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:05:42.498 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3717.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:05:42.498 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:05:42.499 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:05:42.499 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:05:42.500 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3716.1>,{function_clause,
[{http2_client,handle_settings,
[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"13.237.155.172">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5727>,socket_mon =>
#Ref<0.155928093.3974103041.119379>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3717.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:05:42.501 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3717.1>,connection_down}
2022-06-27 20:05:48.832 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:05:52.501 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:05:52.740 1 [info] <0.3761.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:05:52.742 1 [info] <0.3761.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.3760.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 20:05:52.974 1 [error] <0.3760.1>@http2_client:handle_settings:822
gen_server <0.3760.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:05:52.976 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3761.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:05:52.976 1 [error] <0.3760.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3760.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:05:52.976 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:05:52.977 1 [error] <0.3761.1>@Undefined:Undefined:Undefined
gen_server <0.3761.1> terminated with reason: connection_down
2022-06-27 20:05:52.977 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:05:52.978 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:05:52.978 1 [error] <0.3761.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3761.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:05:52.981 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3760.1>,{function_clause,
[ {http2_client,handle_settings,
[ [],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5733>,socket_mon =>
#Ref<0.155928093.3973316611.179482>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3761.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:05:52.983 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3761.1>,connection_down}
2022-06-27 20:05:58.985 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:06:02.980 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:06:03.072 1 [info] <0.3766.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:06:03.073 1 [info] <0.3766.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.3765.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:06:03.158 1 [error] <0.3765.1>@http2_client:handle_settings:822
gen_server <0.3765.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:06:03.159 1 [error] <0.3765.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3765.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:06:03.161 1 [error] <0.3766.1>@Undefined:Undefined:Undefined
gen_server <0.3766.1> terminated with reason: connection_down
2022-06-27 20:06:03.162 1 [error] <0.3766.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3766.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:06:03.163 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3766.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:06:03.163 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:06:03.164 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 20:06:03.165 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:06:03.167 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3765.1>,{function\_clause,

[{http2\_client,handle\_settings,

[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

{state,0,4096,4096,[]},encode\_state => {state,282,4096,4096,[{42,

{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,

{<<"content-type">>,<<"application/grpc+proto">>}},{52,

{<<":authority">>,<<"52.30.1.39">>}},{63,<<":path">>,<<"/helium.gateway/

validators">>}}],host => "52.30.1.39",last\_stream => 1,owner =>

<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size

=> 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},server\_window => 65528,socket => #Port<0.5734>,socket\_mon =>

#Ref<0.155928093.3974103041.120183>,state => open,stream\_count =>

1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>

1,owner => <0.3766.1>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>

gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],

{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],

{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],

{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 20:06:03.168 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3766.1>,connection\_down} 2022-06-27

20:06:06.808 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5}

PUSH\_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>

=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>

<<"2022-06-27 20:06:06 GMT">>,<<"txnb">> => 0}} from

12291671073248440251 on 35152

2022-06-27 20:06:06.809 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #{<<"ackr">>

=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>

```
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:06:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:06:06.810 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5524,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:06:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:06:09.129 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:06:13.168 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:06:13.409 1 [info] <0.3769.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:06:13.410 1 [info] <0.3769.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.3768.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:06:13.641 1 [error] <0.3768.1>@http2_client:handle_settings:822
gen_server <0.3768.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:06:13.643 1 [error] <0.3768.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3768.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:06:13.644 1 [error] <0.3769.1>@Undefined:Undefined:Undefined
gen_server <0.3769.1> terminated with reason: connection_down
2022-06-27 20:06:13.644 1 [error] <0.3769.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3769.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:06:13.645 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3769.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:06:13.645 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:06:13.645 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:06:13.646 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:06:13.647 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3768.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5735>,socket_mon =>
```



```
#Ref<0.155928093.3974103041.120386>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3769.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 20:06:13.647 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3769.1>,connection_down}
2022-06-27 20:06:19.279 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:06:23.648 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:06:23.887 1 [info] <0.3772.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:06:23.889 1 [info] <0.3772.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.3771.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:06:24.120 1 [error] <0.3771.1>@http2_client:handle_settings:822
gen_server <0.3771.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:06:24.124 1 [error] <0.3771.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3771.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 20:06:24.124 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3772.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:06:24.125 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:06:24.125 1 [error] <0.3772.1>@Undefined:Undefined:Undefined
gen_server <0.3772.1> terminated with reason: connection_down
2022-06-27 20:06:24.126 1 [error] <0.3772.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3772.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:06:24.126 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:06:24.127 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:06:24.131 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3771.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5736>,socket_mon =>
#Ref<0.155928093.3974103041.120650>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3772.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:06:24.132 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3772.1>,connection_down}
2022-06-27 20:06:29.423 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:06:34.130 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:06:34.358 1 [info] <0.3775.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:06:34.359 1 [info] <0.3775.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.3774.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:06:34.580 1 [error] <0.3774.1>@http2_client:handle_settings:822
gen_server <0.3774.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 20:06:34.582 1 [error] <0.3774.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3774.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:06:34.583 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3775.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:06:34.583 1 [error] <0.3775.1>@Undefined:Undefined:Undefined
gen_server <0.3775.1> terminated with reason: connection_down
2022-06-27 20:06:34.583 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:06:34.583 1 [error] <0.3775.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3775.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:06:34.584 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:06:34.584 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:06:34.586 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3774.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5737>,socket_mon =>
#Ref<0.155928093.3974103041.120881>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3775.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:06:34.586 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3775.1>,connection_down}
2022-06-27 20:06:36.802 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:06:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:06:36.802 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:06:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:06:36.803 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5528,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:06:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:06:39.568 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833

2022-06-27 20:06:44.586 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.30.111.82":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:06:44.676 1 [info] <0.3778.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 20:06:44.677 1 [info] <0.3778.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"52.30.111.82">>,http\_connection => <0.3777.1>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 20:06:44.761 1 [error] <0.3777.1>@http2\_client:handle\_settings:822 gen\_server <0.3777.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 20:06:44.763 1 [error] <0.3777.1>@http2\_client:handle\_settings:822

CRASH REPORT Process <0.3777.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 20:06:44.763 1 [error] <0.3778.1>@Undefined:Undefined:Undefined gen\_server <0.3778.1> terminated with reason: connection\_down

2022-06-27 20:06:44.764 1 [error] <0.3778.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.3778.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:06:44.765 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.3778.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,

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[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:06:44.765 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:06:44.766 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:06:44.766 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:06:44.768 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3777.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5738>,socket_mon =>
#Ref<0.155928093.3974103041.121110>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3778.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}
```

```
2022-06-27 20:06:44.768 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3778.1>,connection_down}
2022-06-27 20:06:49.721 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:06:54.768 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:06:55.040 1 [info] <0.3802.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:06:55.041 1 [info] <0.3802.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.3790.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:06:55.305 1 [error] <0.3790.1>@http2_client:handle_settings:822
gen_server <0.3790.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:06:55.308 1 [error] <0.3790.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3790.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:06:55.308 1 [error] <0.3802.1>@Undefined:Undefined:Undefined
gen_server <0.3802.1> terminated with reason: connection_down
2022-06-27 20:06:55.308 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3802.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```



```
{file,"miner_poc_grpc_client_statem.erl"},{line,721}}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 20:06:55.308 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:06:55.308 1 [error] <0.3802.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3802.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:06:55.309 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:06:55.310 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:06:55.311 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3790.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5744>,socket_mon =>
#Ref<0.155928093.3974103041.121440>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3802.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:06:55.312 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3802.1>,connection_down}
2022-06-27 20:06:59.856 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:07:05.312 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:07:05.553 1 [info] <0.3827.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:07:05.556 1 [info] <0.3827.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.3826.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:07:05.786 1 [error] <0.3826.1>@http2_client:handle_settings:822
gen_server <0.3826.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:07:05.790 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3827.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:07:05.790 1 [error] <0.3826.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3826.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:07:05.791 1 [error] <0.3827.1>@Undefined:Undefined:Undefined
gen_server <0.3827.1> terminated with reason: connection_down
2022-06-27 20:07:05.792 1 [error] <0.3827.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3827.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:07:05.793 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:07:05.794 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:07:05.795 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:07:05.798 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3826.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5745>,socket_mon =>
#Ref<0.155928093.3974103041.121836>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3827.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:07:05.798 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3827.1>,connection_down}
2022-06-27 20:07:06.806 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:07:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:07:06.807 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:07:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:07:06.808 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5532,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:07:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:07:10.005 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:07:15.798 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:07:16.079 1 [info] <0.3830.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:07:16.080 1 [info] <0.3830.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.3829.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:07:16.355 1 [error] <0.3829.1>@http2_client:handle_settings:822
gen_server <0.3829.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:07:16.356 1 [error] <0.3829.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3829.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:07:16.357 1 [error] <0.3830.1>@Undefined:Undefined:Undefined
gen_server <0.3830.1> terminated with reason: connection_down
2022-06-27 20:07:16.358 1 [error] <0.3830.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3830.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:07:16.359 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3830.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:07:16.360 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:07:16.362 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

2022-06-27 20:07:16.362 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:07:16.366 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3829.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {56, {<<":authority">>,<<"18.228.115.118">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "18.228.115.118",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5746>,socket\_mon => #Ref<0.155928093.3974103041.122049>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.3830.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 20:07:16.367 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3830.1>,connection\_down} 2022-06-27 20:07:20.152 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:07:21.683 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for peerbook <0.1641.0>

2022-06-27 20:07:26.365 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.207.131.103": {gateway\_validators\_req\_v1\_pb,1}

```
2022-06-27 20:07:26.639 1 [info] <0.3836.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:07:26.640 1 [info] <0.3836.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.3835.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:07:26.909 1 [error] <0.3835.1>@http2_client:handle_settings:822
gen_server <0.3835.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:07:26.910 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3836.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:07:26.910 1 [error] <0.3835.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3835.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:07:26.911 1 [error] <0.3836.1>@Undefined:Undefined:Undefined
gen_server <0.3836.1> terminated with reason: connection_down
2022-06-27 20:07:26.911 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 20:07:26.911 1 [error] <0.3836.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3836.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:07:26.912 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:07:26.912 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:07:26.913 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3835.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5747>,socket_mon =>
#Ref<0.155928093.3974103041.122317>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3836.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:07:26.914 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3836.1>,connection_down}
2022-06-27 20:07:30.295 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```



```
12291671073248440251 on 56833
2022-06-27 20:07:36.803 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:07:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:07:36.803 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:07:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:07:36.805 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5536,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:07:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:07:36.915 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:07:38.176 1 [info] <0.3839.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:07:38.178 1 [info] <0.3839.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.3838.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:07:38.405 1 [error] <0.3838.1>@http2_client:handle_settings:822
gen_server <0.3838.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:07:38.410 1 [error] <0.3838.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3838.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:07:38.411 1 [error] <0.3839.1>@Undefined:Undefined:Undefined
gen_server <0.3839.1> terminated with reason: connection_down
2022-06-27 20:07:38.411 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3839.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:07:38.411 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:07:38.412 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:07:38.412 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:07:38.414 1 [error] <0.3839.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3839.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:07:38.416 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3838.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

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{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5748>,socket_mon =>
#Ref<0.155928093.3974103041.122571>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3839.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 20:07:38.417 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3839.1>,connection_down} 2022-06-27
20:07:40.435 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:07:43.335 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11UzUiYANb138jdKbV21LbsR8ENKE9uHWKayazSsDfpDrGP36Gu" informed us of
our observed address "/ip4/80.77.186.186/tcp/19418"
2022-06-27 20:07:48.415 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:07:48.576 1 [info] <0.3858.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:07:48.579 1 [info] <0.3858.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.3857.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:07:48.731 1 [error] <0.3857.1>@http2_client:handle_settings:822
```

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gen_server <0.3857.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:07:48.732 1 [error] <0.3857.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3857.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:07:48.732 1 [error] <0.3858.1>@Undefined:Undefined:Undefined
gen_server <0.3858.1> terminated with reason: connection_down
2022-06-27 20:07:48.733 1 [error] <0.3858.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3858.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:07:48.733 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3858.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:07:48.733 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:07:48.733 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:07:48.733 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:07:48.735 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3857.1>,{function_clause,
```

```
{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5754>,socket_mon =>
#Ref<0.155928093.3973316611.179521>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3858.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:07:48.735 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3858.1>,connection_down}
2022-06-27 20:07:50.588 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:07:58.736 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:08:00.735 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:08:06.811 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:08:06 GMT">>,<<"txnb">> => 0}} from
```

12291671073248440251 on 35152  
2022-06-27 20:08:06.812 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:08:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 20:08:06.813 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=5540,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:08:06 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 20:08:10.885 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:08:21.035 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:08:28.740 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,timeout}},  
[{"miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,719}]}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}],  
{gen\_statem,loop\_state\_callback,11,[{"file,"gen\_statem.erl"},{line,1203}]}],  
{proc\_lib,init\_p\_do\_apply,3,[{"file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 20:08:28.740 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 20:08:28.741 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.3865.1>,timeout}  
2022-06-27 20:08:28.741 1 [error] <0.3865.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.3865.1> with 0 neighbours exited with reason:  
timeout in gen\_server:init\_it/6 line 407  
2022-06-27 20:08:31.182 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:08:36.805 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>

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0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:08:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:08:36.806 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:08:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:08:36.807 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5544,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:08:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:08:38.742 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:08:39.021 1 [info] <0.3888.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:08:39.022 1 [info] <0.3888.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.3887.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:08:39.294 1 [error] <0.3887.1>@http2_client:handle_settings:822
gen_server <0.3887.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:08:39.295 1 [error] <0.3887.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3887.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:08:39.296 1 [error] <0.3888.1>@Undefined:Undefined:Undefined
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gen_server <0.3888.1> terminated with reason: connection_down
2022-06-27 20:08:39.297 1 [error] <0.3888.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3888.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:08:39.297 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3888.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:08:39.298 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:08:39.299 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:08:39.299 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:08:39.300 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3887.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{56,
{<<":authority">>,<<"18.228.115.118">>}],{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```



```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5756>,socket_mon =>
#Ref<0.155928093.3973316611.179543>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3888.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:08:39.302 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3888.1>,connection_down}
2022-06-27 20:08:41.321 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:08:49.301 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:08:49.464 1 [info] <0.3896.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:08:49.466 1 [info] <0.3896.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.3895.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:08:49.617 1 [error] <0.3895.1>@http2_client:handle_settings:822
gen_server <0.3895.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:08:49.618 1 [error] <0.3895.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3895.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:08:49.618 1 [error] <0.3896.1>@Undefined:Undefined:Undefined
gen_server <0.3896.1> terminated with reason: connection_down
2022-06-27 20:08:49.618 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3896.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:08:49.619 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:08:49.619 1 [error] <0.3896.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3896.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:08:49.619 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:08:49.619 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:08:49.620 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3895.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {54,
{<<":authority">>,<<"3.13.130.184">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}}], host => "3.13.130.184", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.5757>, socket_mon =>
#Ref<0.155928093.3973316611.179558>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.3896.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}], timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file,"http2_client.erl"}, {line,822}],
{http2_client, handle_packet, 2, [{file,"http2_client.erl"}, {line,648}]},
{gen_server, try_dispatch, 4, [{file,"gen_server.erl"}, {line,695}]},
{gen_server, handle_msg, 6, [{file,"gen_server.erl"}, {line,771}]},
{proc_lib, init_p_do_apply, 3, [{file,"proc_lib.erl"}, {line,226}]}}]
2022-06-27 20:08:49.621 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3896.1>,connection_down}
2022-06-27 20:08:51.471 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:08:59.622 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:08:59.860 1 [info] <0.3899.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:08:59.862 1 [info] <0.3899.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>, compression =>
none, connection => #{client => http2_client, host =>
<<"13.215.29.4">>, http_connection => <0.3898.1>, scheme =>
<<"http">>}, encoder => gateway_miner_client_pb, headers_sent => false, input =>
gateway_validators_req_v1_pb, input_stream => false, metadata => #{}}, name =>
validators, opts => [], output => gateway_resp_v1_pb, output_stream =>
false, package => [], queue => {[],[]}, response_pending => false, rpc =>
validators, service => 'helium.gateway', state => idle, stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:09:00.096 1 [error] <0.3898.1>@http2_client:handle_settings:822
gen_server <0.3898.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:09:00.098 1 [error] <0.3898.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3898.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:09:00.098 1 [error] <0.3899.1>@Undefined:Undefined:Undefined
gen_server <0.3899.1> terminated with reason: connection_down
2022-06-27 20:09:00.101 1 [error] <0.3899.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3899.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:09:00.102 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3899.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:09:00.102 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:09:00.112 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:09:00.113 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:09:00.114 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3898.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5758>,socket_mon =>
#Ref<0.155928093.3973578754.79873>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3899.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:09:00.115 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3899.1>,connection_down}
2022-06-27 20:09:01.619 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:09:06.812 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:09:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:09:06.813 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:09:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:09:06.814 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5548,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
```

```
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:09:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:09:10.115 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:09:10.277 1 [info] <0.3925.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:09:10.279 1 [info] <0.3925.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.3924.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:09:10.431 1 [error] <0.3924.1>@http2_client:handle_settings:822
gen_server <0.3924.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:09:10.433 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3925.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:09:10.433 1 [error] <0.3924.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3924.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:09:10.433 1 [error] <0.3925.1>@Undefined:Undefined:Undefined
gen_server <0.3925.1> terminated with reason: connection_down
2022-06-27 20:09:10.434 1 [error] <0.3925.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3925.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:09:10.434 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:09:10.434 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:09:10.435 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:09:10.436 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3924.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5759>,socket_mon =>
#Ref<0.155928093.3973316611.179569>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3925.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 20:09:10.437 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3925.1>,connection_down}
2022-06-27 20:09:11.765 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:09:20.436 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:09:20.772 1 [info] <0.3930.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:09:20.774 1 [info] <0.3930.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.3929.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:09:21.103 1 [error] <0.3929.1>@http2_client:handle_settings:822
gen_server <0.3929.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:09:21.103 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3930.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```



```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 20:09:21.103 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:09:21.104 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:09:21.105 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:09:21.106 1 [error] <0.3929.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3929.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:09:21.107 1 [error] <0.3930.1>@Undefined:Undefined:Undefined
gen_server <0.3930.1> terminated with reason: connection_down
2022-06-27 20:09:21.108 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3929.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.211.55.217">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5760>,socket_mon =>
#Ref<0.155928093.3973316611.179578>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3930.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:09:21.108 1 [error] <0.3930.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3930.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:09:21.108 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3930.1>,connection_down} 2022-06-27
20:09:21.905 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:09:31.107 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:09:31.346 1 [info] <0.3934.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:09:31.348 1 [info] <0.3934.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.3933.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:09:31.579 1 [error] <0.3933.1>@http2_client:handle_settings:822
gen_server <0.3933.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:09:31.581 1 [error] <0.3933.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3933.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:09:31.582 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3934.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]]},
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}],{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:09:31.582 1 [error] <0.3934.1>@Undefined:Undefined:Undefined
gen_server <0.3934.1> terminated with reason: connection_down
2022-06-27 20:09:31.582 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:09:31.582 1 [error] <0.3934.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3934.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:09:31.583 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:09:31.583 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:09:31.586 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3933.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{55,
{<<":authority">>,<<"13.215.75.202">>}],{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5761>,socket_mon =>
```

```
#Ref<0.155928093.3973316611.179593>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3934.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 20:09:31.587 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3934.1>,connection_down}
2022-06-27 20:09:32.042 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:09:36.811 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:09:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:09:36.811 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:09:36 GMT">>,<<"txnb">> => 0}
2022-06-27 20:09:36.812 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5552,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:09:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:09:41.585 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:09:41.862 1 [info] <0.3937.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:09:41.864 1 [info] <0.3937.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.3936.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:09:42.130 1 [error] <0.3936.1>@http2_client:handle_settings:822
gen_server <0.3936.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:09:42.131 1 [error] <0.3936.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3936.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:09:42.131 1 [error] <0.3937.1>@Undefined:Undefined:Undefined
gen_server <0.3937.1> terminated with reason: connection_down
2022-06-27 20:09:42.132 1 [error] <0.3937.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3937.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:09:42.132 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3937.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:09:42.133 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:09:42.133 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 20:09:42.133 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:09:42.135 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3936.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{56, {<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "18.228.115.118",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5762>,socket\_mon => #Ref<0.155928093.3973316611.179620>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.3937.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 20:09:42.135 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3937.1>,connection\_down}

2022-06-27 20:09:42.181 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:09:52.135 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.72.215.7":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:09:52.218 1 [info] <0.3941.1>@grpc\_client\_stream\_custom:init:

```
{131,9} init stream for RPC validators and type unary
2022-06-27 20:09:52.219 1 [info] <0.3941.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.3940.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:09:52.294 1 [error] <0.3940.1>@http2_client:handle_settings:822
gen_server <0.3940.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:09:52.295 1 [error] <0.3940.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3940.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:09:52.296 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3941.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:09:52.296 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:09:52.297 1 [error] <0.3941.1>@Undefined:Undefined:Undefined
gen_server <0.3941.1> terminated with reason: connection_down
```

2022-06-27 20:09:52.297 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 20:09:52.297 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:09:52.297 1 [error] <0.3941.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.3941.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:09:52.298 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3940.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,282,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {52, {<<":authority">>,<<"3.72.215.7">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.72.215.7",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5763>,socket\_mon => #Ref<0.155928093.3973316611.179651>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.3941.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}]}

2022-06-27 20:09:52.299 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.3941.1>,connection\_down}

2022-06-27 20:09:52.328 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833



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2022-06-27 20:10:02.300 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:10:02.468 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:10:02.535 1 [info] <0.3949.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:10:02.537 1 [info] <0.3949.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.3948.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:10:02.764 1 [error] <0.3948.1>@http2_client:handle_settings:822
gen_server <0.3948.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:10:02.766 1 [error] <0.3948.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3948.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:10:02.767 1 [error] <0.3949.1>@Undefined:Undefined:Undefined
gen_server <0.3949.1> terminated with reason: connection_down
2022-06-27 20:10:02.768 1 [error] <0.3949.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3949.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:10:02.769 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3949.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
{file,"miner_poc_grpc_client_statem.erl"},{line,721}}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 20:10:02.769 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:10:02.770 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:10:02.770 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:10:02.774 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3948.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],}],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5764>,socket_mon =>
#Ref<0.155928093.3973578754.80089>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3949.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 20:10:02.775 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3949.1>,connection_down}
2022-06-27 20:10:06.815 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:10:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:10:06.816 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:10:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:10:06.817 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5556,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:10:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:10:12.622 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:10:12.772 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:10:12.864 1 [info] <0.3969.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:10:12.865 1 [info] <0.3969.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.3968.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:10:12.954 1 [error] <0.3968.1>@http2_client:handle_settings:822
gen_server <0.3968.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:10:12.957 1 [error] <0.3968.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3968.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:10:12.958 1 [error] <0.3969.1>@Undefined:Undefined:Undefined
gen_server <0.3969.1> terminated with reason: connection_down
2022-06-27 20:10:12.958 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3969.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:10:12.958 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:10:12.958 1 [error] <0.3969.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3969.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:10:12.959 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:10:12.959 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:10:12.962 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3968.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5765>,socket_mon =>
#Ref<0.155928093.3973578754.80162>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3969.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:10:12.964 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3969.1>,connection_down}
2022-06-27 20:10:22.772 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:10:22.961 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:10:23.298 1 [info] <0.3980.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:10:23.299 1 [info] <0.3980.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.3979.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:10:23.630 1 [error] <0.3979.1>@http2_client:handle_settings:822
gen_server <0.3979.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:10:23.631 1 [error] <0.3979.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3979.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:10:23.632 1 [error] <0.3980.1>@Undefined:Undefined:Undefined
gen_server <0.3980.1> terminated with reason: connection_down
2022-06-27 20:10:23.632 1 [error] <0.3980.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3980.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:10:23.633 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3980.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:10:23.634 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:10:23.634 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:10:23.635 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

2022-06-27 20:10:23.636 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3979.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.211.55.217">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5766>,socket_mon =>
#Ref<0.155928093.3973316611.179717>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3980.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 20:10:23.637 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3980.1>,connection_down} 2022-06-27
20:10:27.864 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"rxpk">> => [#{<<"chan">> => 3,<<"codr">> =>
<<"4/5">>,<<"data">> =>
<<"QDDaAAHW7v+oAHnUAAIWK5lhNPQADN+Ws9vksiFxt7AFtAVrrffb0d9O7isw2j
0QQ/hjUw==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
-828,<<"freq">> => 867.1,<<"jver">> => 1,<<"lsnr">> => -20.2,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -111,<<"rssi_s">>
=> -131,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 3488891344}}} from
12291671073248440251 on 35152
```

2022-06-27 20:10:32.909 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 20:10:33.637 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:10:33.915 1 [info] <0.3983.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:10:33.916 1 [info] <0.3983.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.3982.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:10:34.190 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3983.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:10:34.190 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:10:34.191 1 [error] <0.3982.1>@http2_client:handle_settings:822
gen_server <0.3982.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:10:34.191 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```



```
2022-06-27 20:10:34.191 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:10:34.193 1 [error] <0.3982.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3982.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:10:34.194 1 [error] <0.3983.1>@Undefined:Undefined:Undefined
gen_server <0.3983.1> terminated with reason: connection_down
2022-06-27 20:10:34.194 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3982.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5767>,socket_mon =>
#Ref<0.155928093.3973316611.179731>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3983.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 20:10:34.194 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3983.1>,connection_down}
2022-06-27 20:10:34.194 1 [error] <0.3983.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.3983.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:10:36.811 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:10:36 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 20:10:36.812 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:10:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 20:10:36.813 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=5560,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:10:36 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 20:10:43.051 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:10:44.194 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.215.29.4":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:10:44.433 1 [info] <0.3986.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 20:10:44.435 1 [info] <0.3986.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"13.215.29.4">>,http\_connection => <0.3985.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 20:10:44.671 1 [error] <0.3985.1>@http2\_client:handle\_settings:822  
gen\_server <0.3985.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:10:44.671 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.3986.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]}

2022-06-27 20:10:44.672 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 20:10:44.672 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 20:10:44.672 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 20:10:44.673 1 [error] <0.3985.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.3985.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 20:10:44.674 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.3985.1>,{function\_clause,  
[{"http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[],encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,  
{<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/

```
validators">>}}},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5768>,socket_mon =>
#Ref<0.155928093.3973316611.179749>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3986.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 20:10:44.675 1 [error] <0.3986.1>@Undefined:Undefined:Undefined
gen_server <0.3986.1> terminated with reason: connection_down
2022-06-27 20:10:44.675 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3986.1>,connection_down} 2022-06-27
20:10:44.675 1 [error] <0.3986.1>@Undefined:Undefined:Undefined CRASH
REPORT Process <0.3986.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:10:53.205 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:10:54.675 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:10:54.761 1 [info] <0.3990.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:10:54.764 1 [info] <0.3990.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.3988.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:10:54.837 1 [error] <0.3988.1>@http2_client:handle_settings:822
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```
gen_server <0.3988.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:10:54.839 1 [error] <0.3988.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3988.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:10:54.839 1 [error] <0.3990.1>@Undefined:Undefined:Undefined
gen_server <0.3990.1> terminated with reason: connection_down
2022-06-27 20:10:54.840 1 [error] <0.3990.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3990.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:10:54.840 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3990.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:10:54.841 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:10:54.841 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:10:54.841 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:10:54.843 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3988.1>,{function_clause,
```

```
{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5769>,socket_mon =>
#Ref<0.155928093.3974103041.127792>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3990.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:10:54.843 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3990.1>,connection_down} 2022-06-27
20:11:03.352 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:11:04.844 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:11:06.818 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:11:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:11:06.818 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 20:11:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:11:06.819 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5564,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:11:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 20:11:06.979 1 [info] <0.3998.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:11:06.980 1 [info] <0.3998.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.3996.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:11:07.058 1 [error] <0.3996.1>@http2_client:handle_settings:822
gen_server <0.3996.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:11:07.060 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.3998.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:11:07.060 1 [error] <0.3996.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.3996.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 20:11:07.060 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:11:07.060 1 [error] <0.3998.1>@Undefined:Undefined:Undefined
gen_server <0.3998.1> terminated with reason: connection_down
2022-06-27 20:11:07.061 1 [error] <0.3998.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.3998.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:11:07.062 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:11:07.062 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:11:07.063 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3996.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"3.72.215.7">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5770>,socket_mon =>
#Ref<0.155928093.3974103041.128116>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.3998.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
```



```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 20:11:07.064 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.3998.1>,connection_down}
2022-06-27 20:11:08.970 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11XnvtYE9bNxLavHcfzDRgZ2h8SMQ2pDpXmKLwCDZDAKsUHtnSz" informed us
of our observed address "/ip4/80.77.186.186/tcp/45743"
2022-06-27 20:11:13.486 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:11:17.065 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:11:17.302 1 [info] <0.4029.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:11:17.304 1 [info] <0.4029.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.4028.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:11:17.529 1 [error] <0.4028.1>@http2_client:handle_settings:822
gen_server <0.4028.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:11:17.531 1 [error] <0.4028.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4028.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:11:17.531 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4029.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]]},
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:11:17.531 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:11:17.531 1 [error] <0.4029.1>@Undefined:Undefined:Undefined
gen_server <0.4029.1> terminated with reason: connection_down
2022-06-27 20:11:17.531 1 [error] <0.4029.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4029.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:11:17.532 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:11:17.532 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:11:17.533 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4028.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"44.229.159.157">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5776>,socket_mon =>
```

```
#Ref<0.155928093.3974103041.128595>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4029.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 20:11:17.533 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4029.1>,connection_down} 2022-06-27
20:11:23.621 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:11:27.535 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:11:27.817 1 [info] <0.4045.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:11:27.819 1 [info] <0.4045.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.4044.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:11:28.091 1 [error] <0.4044.1>@http2_client:handle_settings:822
gen_server <0.4044.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:11:28.091 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4045.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl",{line,418}}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 20:11:28.091 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:11:28.092 1 [error] <0.4044.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4044.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:11:28.092 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:11:28.092 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:11:28.092 1 [error] <0.4045.1>@Undefined:Undefined:Undefined
gen_server <0.4045.1> terminated with reason: connection_down
2022-06-27 20:11:28.093 1 [error] <0.4045.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4045.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:11:28.094 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4044.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5777>,socket_mon =>
#Ref<0.155928093.3974103041.128997>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4045.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:11:28.095 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4045.1>,connection_down}
2022-06-27 20:11:33.781 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:11:36.812 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:11:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:11:36.812 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:11:36 GMT">>,<<"txnb">> => 0}
2022-06-27 20:11:36.814 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5568,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:11:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 20:11:38.095 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:11:38.332 1 [info] <0.4048.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:11:38.333 1 [info] <0.4048.1>@grpc_client_stream_custom:init:
```

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.4047.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:11:38.565 1 [error] <0.4047.1>@http2_client:handle_settings:822
gen_server <0.4047.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:11:38.567 1 [error] <0.4047.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4047.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:11:38.571 1 [error] <0.4048.1>@Undefined:Undefined:Undefined
gen_server <0.4048.1> terminated with reason: connection_down
2022-06-27 20:11:38.572 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4048.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:11:38.572 1 [error] <0.4048.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4048.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:11:38.572 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 20:11:38.573 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:11:38.573 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:11:38.576 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4047.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5778>,socket_mon =>
#Ref<0.155928093.3974103041.129246>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4048.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 20:11:38.577 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4048.1>,connection_down}
2022-06-27 20:11:43.939 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:11:48.576 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

unary request via new connection to ip "3.70.55.231":

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 20:11:48.658 1 [info] <0.4051.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 20:11:48.660 1 [info] <0.4051.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"3.70.55.231">>,http_connection => <0.4050.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 20:11:48.732 1 [error] <0.4050.1>@http2_client:handle_settings:822
```

```
gen_server <0.4050.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 20:11:48.734 1 [error] <0.4050.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.4050.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 20:11:48.735 1 [error] <0.4051.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.4051.1> terminated with reason: connection_down
```

```
2022-06-27 20:11:48.736 1 [error] <0.4051.1>@Undefined:Undefined:Undefined
```

```
CRASH REPORT Process <0.4051.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 20:11:48.738 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.4051.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```



```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:11:48.738 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:11:48.738 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:11:48.739 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:11:48.741 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4050.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5779>,socket_mon =>
#Ref<0.155928093.3974103041.129488>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4051.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}]
2022-06-27 20:11:48.741 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4051.1>,connection_down}
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```
2022-06-27 20:11:54.085 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:11:58.742 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:11:59.019 1 [info] <0.4054.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:11:59.020 1 [info] <0.4054.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.4053.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:11:59.295 1 [error] <0.4053.1>@http2_client:handle_settings:822
gen_server <0.4053.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:11:59.297 1 [error] <0.4053.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4053.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:11:59.298 1 [error] <0.4054.1>@Undefined:Undefined:Undefined
gen_server <0.4054.1> terminated with reason: connection_down
2022-06-27 20:11:59.299 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4054.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:11:59.299 1 [error] <0.4054.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4054.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:11:59.299 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:11:59.300 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:11:59.301 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:11:59.302 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4053.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5780>,socket_mon =>
#Ref<0.155928093.3973316611.179825>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4054.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]}],
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 20:11:59.303 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4054.1>,connection_down}
2022-06-27 20:12:04.242 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:12:06.815 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:12:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:12:06.816 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:12:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:12:06.817 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5572,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:12:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:12:09.302 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:12:09.579 1 [info] <0.4063.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:12:09.580 1 [info] <0.4063.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.4062.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:12:09.851 1 [error] <0.4062.1>@http2_client:handle_settings:822
gen_server <0.4062.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:12:09.851 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4063.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:12:09.851 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:12:09.852 1 [error] <0.4062.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4062.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:12:09.852 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:12:09.852 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:12:09.852 1 [error] <0.4063.1>@Undefined:Undefined:Undefined
gen_server <0.4063.1> terminated with reason: connection_down
2022-06-27 20:12:09.853 1 [error] <0.4063.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4063.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:12:09.854 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4062.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5781>,socket_mon =>
#Ref<0.155928093.3974103041.130087>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4063.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:12:09.855 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4063.1>,connection_down} 2022-06-27
20:12:14.384 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:12:19.854 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:12:20.024 1 [info] <0.4073.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:12:20.025 1 [info] <0.4073.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.4072.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

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miner_poc_grpc_client_handler
2022-06-27 20:12:20.183 1 [error] <0.4072.1>@http2_client:handle_settings:822
gen_server <0.4072.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:12:20.184 1 [error] <0.4072.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4072.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:12:20.185 1 [error] <0.4073.1>@Undefined:Undefined:Undefined
gen_server <0.4073.1> terminated with reason: connection_down
2022-06-27 20:12:20.186 1 [error] <0.4073.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4073.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:12:20.186 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4073.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:12:20.187 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:12:20.187 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:12:20.187 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:12:20.190 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4072.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"3.132.190.192">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.132.190.192",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5782>,socket\_mon => #Ref<0.155928093.3973316611.179839>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.4073.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]} 2022-06-27 20:12:20.190 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4073.1>,connection\_down} 2022-06-27 20:12:21.684 1 [info] <0.1635.0>@libp2p\_group\_gossip\_server:drop\_target: {619,5} dropping target for peerbook <0.1639.0> 2022-06-27 20:12:21.976 1 [warning]

<0.1646.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/ip4/63.32.236.10/tcp/2154": {exit,{normal,{gen\_server,call,[<0.3422.1>,open]}}} 2022-06-27 20:12:24.528 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833 2022-06-27 20:12:29.969 1 [info]

<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/11245S2bqZ5n5ZhoCJMMD57kA2ebhxBPcBwNAXeHsxmvd7xEnwVX" informed us of our observed address "/ip4/80.77.186.186/tcp/56348" 2022-06-27 20:12:30.190 1 [info]



```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:12:30.425 1 [info] <0.4124.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:12:30.427 1 [info] <0.4124.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2_client,host => <<"44.229.159.157">>,http_connection => <0.4123.1>,scheme => <<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input => gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name => validators,opts => [],output => gateway_resp_v1_pb,output_stream => false,package => [],queue => {[[],[]]},response_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod: miner_poc_grpc_client_handler
2022-06-27 20:12:30.657 1 [error] <0.4123.1>@http2_client:handle_settings:822 gen_server <0.4123.1> terminated with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:12:30.657 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4124.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:12:30.658 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New Connection, send unary result: {error,#{error_type => client,status_message => <<"stream create failed">>}}
2022-06-27 20:12:30.659 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc client error response
2022-06-27 20:12:30.659 1 [error] <0.4123.1>@http2_client:handle_settings:822
```

CRASH REPORT Process <0.4123.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 20:12:30.659 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:12:30.659 1 [error] <0.4124.1>@Undefined:Undefined:Undefined gen\_server <0.4124.1> terminated with reason: connection\_down  
2022-06-27 20:12:30.660 1 [error] <0.4124.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.4124.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:12:30.661 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4123.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{56, {<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}]}]},host => "44.229.159.157",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5789>,socket\_mon => #Ref<0.155928093.3974103041.130913>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.4124.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}

2022-06-27 20:12:30.661 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst

in setup state: Type: info, Msg: {'EXIT',<0.4124.1>,connection\_down}  
2022-06-27 20:12:34.668 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:12:36.814 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:12:36 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 20:12:36.815 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:12:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 20:12:36.816 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=5576,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:12:36 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 20:12:40.662 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "54.251.77.229":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:12:40.899 1 [info] <0.4127.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 20:12:40.900 1 [info] <0.4127.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"54.251.77.229">>,http\_connection => <0.4126.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 20:12:41.432 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.4127.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]}],

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 20:12:41.432 1 [error] <0.4126.1>@http2_client:handle_settings:822
gen_server <0.4126.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:12:41.432 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:12:41.433 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:12:41.433 1 [error] <0.4126.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4126.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:12:41.433 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:12:41.434 1 [error] <0.4127.1>@Undefined:Undefined:Undefined
gen_server <0.4127.1> terminated with reason: connection_down
2022-06-27 20:12:41.434 1 [error] <0.4127.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4127.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:12:41.436 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4126.1>,{function_clause,
[{{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"54.251.77.229">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5790>,socket_mon =>
#Ref<0.155928093.3974103041.131159>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4127.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 20:12:41.436 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4127.1>,connection_down}
2022-06-27 20:12:43.392 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11Kvh5zmSFtMuLawGSbRMteMvhq5KPr63naG8CkWb47dLQ7tbWK" informed us
of our observed address "/ip4/80.77.186.186/tcp/52234"
2022-06-27 20:12:44.806 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:12:51.436 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:12:51.713 1 [info] <0.4146.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:12:51.714 1 [info] <0.4146.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.4145.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:12:51.988 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4146.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]
2022-06-27 20:12:51.988 1 [error] <0.4145.1>@http2_client:handle_settings:822
gen_server <0.4145.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:12:51.988 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:12:51.989 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:12:51.989 1 [error] <0.4145.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4145.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:12:51.990 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:12:51.990 1 [error] <0.4146.1>@Undefined:Undefined:Undefined
gen_server <0.4146.1> terminated with reason: connection_down
2022-06-27 20:12:51.990 1 [error] <0.4146.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4146.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

2022-06-27 20:12:51.991 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4145.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5798>,socket_mon =>
#Ref<0.155928093.3974103041.131636>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4146.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}]}
2022-06-27 20:12:51.992 1 [warning]
```

2022-06-27 20:12:51.992 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4146.1>,connection_down}
```

2022-06-27 20:12:54.958 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 20:13:01.992 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
```

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 20:13:02.268 1 [info] <0.4149.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 20:13:02.269 1 [info] <0.4149.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"54.207.131.103">>,http_connection => <0.4148.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:13:02.538 1 [error] <0.4148.1>@http2_client:handle_settings:822
gen_server <0.4148.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:13:02.539 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4149.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:13:02.539 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:13:02.539 1 [error] <0.4148.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4148.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:13:02.540 1 [error] <0.4149.1>@Undefined:Undefined:Undefined
gen_server <0.4149.1> terminated with reason: connection_down
2022-06-27 20:13:02.540 1 [error] <0.4149.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4149.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:13:02.540 1 [warning]
```



<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 20:13:02.540 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:13:02.542 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4148.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[[{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66, {<<"content-type">>,<<"application/grpc+proto">>}}],{56, {<<":authority">>,<<"54.207.131.103">>}}],{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "54.207.131.103",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5799>,socket\_mon => #Ref<0.155928093.3974103041.131901>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.4149.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}  
2022-06-27 20:13:02.543 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4149.1>,connection\_down}  
2022-06-27 20:13:05.115 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:13:06.816 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>

```
<<"2022-06-27 20:13:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:13:06.816 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:13:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:13:06.818 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5580,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:13:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:13:12.543 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:13:12.827 1 [info] <0.4158.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:13:12.829 1 [info] <0.4158.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.4157.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:13:13.106 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4158.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 20:13:13.106 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:13:13.106 1 [error] <0.4157.1>@http2_client:handle_settings:822
gen_server <0.4157.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:13:13.108 1 [error] <0.4157.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4157.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:13:13.108 1 [error] <0.4158.1>@Undefined:Undefined:Undefined
gen_server <0.4158.1> terminated with reason: connection_down
2022-06-27 20:13:13.108 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:13:13.108 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:13:13.109 1 [error] <0.4158.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4158.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:13:13.112 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4157.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"18.228.115.118">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},server_window => 65528,socket => #Port<0.5800>,socket_mon =>
#Ref<0.155928093.3974103041.132200>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4158.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl",{line,226}}}]}}
2022-06-27 20:13:13.112 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4158.1>,connection_down}
2022-06-27 20:13:15.262 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:13:23.110 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:13:23.392 1 [info] <0.4163.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:13:23.394 1 [info] <0.4163.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.4162.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:13:23.664 1 [error] <0.4162.1>@http2_client:handle_settings:822
gen_server <0.4162.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:13:23.666 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4163.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{{file,"grpc_client_stream_custom.erl"},{line,418}}],{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 20:13:23.666 1 [error] <0.4162.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4162.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:13:23.666 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:13:23.667 1 [error] <0.4163.1>@Undefined:Undefined:Undefined
gen_server <0.4163.1> terminated with reason: connection_down
2022-06-27 20:13:23.667 1 [error] <0.4163.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4163.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:13:23.667 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:13:23.667 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:13:23.669 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4162.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
```

```
{<<":authority">>,<<"54.207.131.103">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}}, host => "54.207.131.103", last_stream => 1, owner => <0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size => 4096, initial_window_size => 65535, low_water_mark => 16384, max_concurrent_streams => undefined, max_frame_size => 16384}, server_window => 65528, socket => #Port<0.5801>, socket_mon => #Ref<0.155928093.3974103041.132455>, state => open, stream_count => 1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id => 1, owner => <0.4163.1>, server_window => 65528, state => half_closed_local, window_mgmt_data => undefined, window_mgmt_fun => #Fun<http2_client.0.117949056>}}], timeout => 3000, transport => gen_tcp, window_mgmt_data => undefined, window_mgmt_fun => #Fun<http2_client.0.117949056>}, [{file, "http2_client.erl"}, {line, 822}], {http2_client, handle_packet, 2, [{file, "http2_client.erl"}, {line, 648}], {gen_server, try_dispatch, 4, [{file, "gen_server.erl"}, {line, 695}], {gen_server, handle_msg, 6, [{file, "gen_server.erl"}, {line, 771}], {proc_lib, init_p_do_apply, 3, [{file, "proc_lib.erl"}, {line, 226}]}}]
2022-06-27 20:13:23.669 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4163.1>,connection_down}
2022-06-27 20:13:23.725 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 1,<<"codr">> => <<"4/5">>,<<"data">> => <<"QEm/LwCAAQAB+TqQr2gHdhd6gser7l5YzHxwjzU=">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> => -371,<<"freq">> => 868.3,<<"jver">> => 1,<<"lsnr">> => -22.2,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">> => 1,<<"rssi">> => -109,<<"rssi_s">> => -130,<<"size">> => 29,<<"stat">> => 1,<<"tmst">> => 3664761820}} from 12291671073248440251 on 35152
2022-06-27 20:13:25.415 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:13:33.670 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:13:33.952 1 [info] <0.4181.1>@grpc_client_stream_custom:init: {131,9} init stream for RPC validators and type unary
2022-06-27 20:13:33.953 1 [info] <0.4181.1>@grpc_client_stream_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2_client,host => <<"18.228.115.118">>,http_connection => <0.4180.1>,scheme => <<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input => gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

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false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:13:34.226 1 [error] <0.4180.1>@http2_client:handle_settings:822
gen_server <0.4180.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:13:34.227 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4181.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:13:34.227 1 [error] <0.4180.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4180.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:13:34.227 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:13:34.228 1 [error] <0.4181.1>@Undefined:Undefined:Undefined
gen_server <0.4181.1> terminated with reason: connection_down
2022-06-27 20:13:34.228 1 [error] <0.4181.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4181.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:13:34.228 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:13:34.228 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
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validator failed: {error,req_failed}
2022-06-27 20:13:34.232 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4180.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5802>,socket_mon =>
#Ref<0.155928093.3974103041.132785>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4181.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:13:34.233 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4181.1>,connection_down}
2022-06-27 20:13:35.568 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:13:36.825 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:13:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:13:36.826 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
```



```
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:13:36 GMT">>,<<"txnb">> => 0}
2022-06-27 20:13:36.827 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5584,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:13:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:13:44.231 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:13:44.322 1 [info] <0.4189.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:13:44.323 1 [info] <0.4189.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.4188.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:13:44.409 1 [error] <0.4188.1>@http2_client:handle_settings:822
gen_server <0.4188.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:13:44.411 1 [error] <0.4188.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4188.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:13:44.413 1 [error] <0.4189.1>@Undefined:Undefined:Undefined
gen_server <0.4189.1> terminated with reason: connection_down
2022-06-27 20:13:44.414 1 [error] <0.4189.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4189.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:13:44.415 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.4189.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:13:44.416 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:13:44.416 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:13:44.417 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:13:44.420 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4188.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5803>,socket_mon =>
#Ref<0.155928093.3974103041.133090>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4189.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>]],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}}
2022-06-27 20:13:44.421 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4189.1>,connection_down}
2022-06-27 20:13:45.721 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:13:54.419 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:13:54.502 1 [info] <0.4196.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:13:54.504 1 [info] <0.4196.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.4195.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:13:54.580 1 [error] <0.4195.1>@http2_client:handle_settings:822
gen_server <0.4195.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:13:54.581 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4196.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

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{file,"miner_poc_grpc_client_statem.erl"},{line,721}}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 20:13:54.581 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:13:54.581 1 [error] <0.4195.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4195.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:13:54.581 1 [error] <0.4196.1>@Undefined:Undefined:Undefined
gen_server <0.4196.1> terminated with reason: connection_down
2022-06-27 20:13:54.581 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:13:54.582 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:13:54.582 1 [error] <0.4196.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4196.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:13:54.583 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4195.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"3.72.215.7">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5804>,socket_mon =>
#Ref<0.155928093.3974103041.133317>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4196.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:13:54.583 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4196.1>,connection_down}
2022-06-27 20:13:55.865 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:14:04.584 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:14:04.915 1 [info] <0.4199.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:14:04.917 1 [info] <0.4199.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.4198.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:14:05.241 1 [error] <0.4198.1>@http2_client:handle_settings:822
gen_server <0.4198.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:14:05.242 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4199.1>,{rcv,10000},infinity]}}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]],
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:14:05.242 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:14:05.243 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:14:05.243 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:14:05.244 1 [error] <0.4198.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4198.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:14:05.245 1 [error] <0.4199.1>@Undefined:Undefined:Undefined
gen_server <0.4199.1> terminated with reason: connection_down
2022-06-27 20:14:05.245 1 [error] <0.4199.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4199.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:14:05.247 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4198.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5805>,socket_mon =>
#Ref<0.155928093.3974103041.133561>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4199.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}}
2022-06-27 20:14:05.248 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4199.1>,connection_down}
2022-06-27 20:14:06.028 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:14:06.819 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:14:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:14:06.820 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:14:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:14:06.822 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5588,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:14:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:14:15.247 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
```

```
{gateway_validators_req_v1_pb,1}
2022-06-27 20:14:15.340 1 [info] <0.4203.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:14:15.342 1 [info] <0.4203.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.4202.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:14:15.426 1 [error] <0.4202.1>@http2_client:handle_settings:822
gen_server <0.4202.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:14:15.428 1 [error] <0.4202.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4202.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:14:15.429 1 [error] <0.4203.1>@Undefined:Undefined:Undefined
gen_server <0.4203.1> terminated with reason: connection_down
2022-06-27 20:14:15.430 1 [error] <0.4203.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4203.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:14:15.431 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4203.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```



```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 20:14:15.432 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:14:15.432 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:14:15.433 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:14:15.436 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4202.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5806>,socket_mon =>
#Ref<0.155928093.3974103041.133799>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4203.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 20:14:15.436 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4203.1>,connection_down}
2022-06-27 20:14:16.165 1 [info]
```

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:14:25.436 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.38.70.101":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:14:26.301 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:14:36.445 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:14:36.818 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:14:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 20:14:36.818 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:14:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 20:14:36.819 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5592,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:14:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 20:14:46.595 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:14:55.439 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}]],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}]],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}]],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}]],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}]]]  
2022-06-27 20:14:55.439 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:14:55.440 1 [error] <0.4209.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.4209.1> with 0 neighbours exited with reason: timeout in gen\_server:init\_it/6 line 407  
2022-06-27 20:14:55.440 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4209.1>,timeout}  
2022-06-27 20:14:56.745 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:14:59.810 1 [info] <0.1636.0>@libp2p\_peerbook:notify\_peers: {726,5} gossiping out 4 notify peers  
2022-06-27 20:15:05.442 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.237.155.172":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:15:05.775 1 [info] <0.4238.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 20:15:05.777 1 [info] <0.4238.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"13.237.155.172">>,http\_connection => <0.4237.1>,scheme => <<"http">>,encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 20:15:06.106 1 [error] <0.4237.1>@http2\_client:handle\_settings:822 gen\_server <0.4237.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 20:15:06.108 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.4238.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

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{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:15:06.109 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:15:06.109 1 [error] <0.4237.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4237.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:15:06.110 1 [error] <0.4238.1>@Undefined:Undefined:Undefined
gen_server <0.4238.1> terminated with reason: connection_down
2022-06-27 20:15:06.110 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:15:06.111 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:15:06.111 1 [error] <0.4238.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4238.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:15:06.114 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4237.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

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16384},server_window => 65528,socket => #Port<0.5808>,socket_mon =>
#Ref<0.155928093.3974103041.135268>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4238.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:15:06.115 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4238.1>,connection_down}
2022-06-27 20:15:06.826 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:15:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:15:06.827 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:15:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:15:06.828 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5595,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:15:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:15:06.895 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:15:16.114 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:15:16.386 1 [info] <0.4241.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:15:16.388 1 [info] <0.4241.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

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<<"13.209.94.225">>,http_connection => <0.4240.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:15:16.653 1 [error] <0.4240.1>@http2_client:handle_settings:822
gen_server <0.4240.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:15:16.654 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4241.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:15:16.654 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:15:16.655 1 [error] <0.4240.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4240.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:15:16.655 1 [error] <0.4241.1>@Undefined:Undefined:Undefined
gen_server <0.4241.1> terminated with reason: connection_down
2022-06-27 20:15:16.655 1 [error] <0.4241.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4241.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:15:16.655 1 [warning]
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<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 20:15:16.655 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:15:16.657 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4240.1>,{function\_clause, [{http2\_client,handle\_settings, [[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "13.209.94.225",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5809>,socket\_mon => #Ref<0.155928093.3974103041.135516>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.4241.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}

2022-06-27 20:15:16.658 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4241.1>,connection\_down}  
2022-06-27 20:15:17.052 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:15:26.658 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.24.161.210": {gateway\_validators\_req\_v1\_pb,1}

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2022-06-27 20:15:26.986 1 [info] <0.4245.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:15:26.987 1 [info] <0.4245.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.4244.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:15:27.188 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:15:27.311 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4245.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:15:27.311 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:15:27.312 1 [error] <0.4244.1>@http2_client:handle_settings:822
gen_server <0.4244.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:15:27.312 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:15:27.312 1 [warning]
```



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<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:15:27.312 1 [error] <0.4244.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4244.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 20:15:27.313 1 [error] <0.4245.1>@Undefined:Undefined:Undefined
gen_server <0.4245.1> terminated with reason: connection_down
2022-06-27 20:15:27.314 1 [error] <0.4245.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4245.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:15:27.315 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4244.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5810>,socket_mon =>
#Ref<0.155928093.3974103041.135754>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4245.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:15:27.315 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

in setup state: Type: info, Msg: {'EXIT',<0.4245.1>,connection\_down}  
2022-06-27 20:15:36.820 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:15:36 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 20:15:36.821 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:15:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 20:15:36.822 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=5599,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:15:36 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 20:15:37.315 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.24.161.210":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:15:37.325 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:15:37.649 1 [info] <0.4248.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 20:15:37.650 1 [info] <0.4248.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"3.24.161.210">>,http\_connection => <0.4247.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 20:15:37.978 1 [error] <0.4247.1>@http2\_client:handle\_settings:822  
gen\_server <0.4247.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 20:15:37.979 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4248.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:15:37.979 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:15:37.980 1 [error] <0.4247.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4247.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:15:37.980 1 [error] <0.4248.1>@Undefined:Undefined:Undefined
gen_server <0.4248.1> terminated with reason: connection_down
2022-06-27 20:15:37.980 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:15:37.980 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:15:37.980 1 [error] <0.4248.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4248.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:15:37.982 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4247.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5811>,socket_mon =>
#Ref<0.155928093.3974103041.136026>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4248.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:15:37.982 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4248.1>,connection_down}
2022-06-27 20:15:44.343 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 1,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QGANeGgGATIMCgm3KOsaUfXGnGySMqGs3hfEQbDE=">>,<<"datr">> =>
<<"SF12BW125">>,<<"foff">> => -590,<<"freq">> => 868.3,<<"jver">> =>
1,<<"lsnr">> => -20.0,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 1,<<"rssi">> => -108,<<"rssi_s">> => -128,<<"size">> => 29,<<"stat">> =>
1,<<"tmst">> => 3805381333]} from 12291671073248440251 on 35152
2022-06-27 20:15:47.465 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:15:47.982 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:15:48.219 1 [info] <0.4251.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:15:48.220 1 [info] <0.4251.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.4250.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:15:48.454 1 [error] <0.4250.1>@http2_client:handle_settings:822
gen_server <0.4250.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:15:48.456 1 [error] <0.4250.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4250.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:15:48.457 1 [error] <0.4251.1>@Undefined:Undefined:Undefined
gen_server <0.4251.1> terminated with reason: connection_down
2022-06-27 20:15:48.459 1 [error] <0.4251.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4251.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:15:48.464 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4251.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:15:48.465 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:15:48.466 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 20:15:48.466 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:15:48.468 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4250.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "54.251.77.229",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5812>,socket\_mon => #Ref<0.155928093.3974103041.136259>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.4251.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 20:15:48.468 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4251.1>,connection\_down}

2022-06-27 20:15:57.605 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:15:58.469 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "35.82.239.134":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:15:58.702 1 [info] <0.4254.1>@grpc\_client\_stream\_custom:init:

```
{131,9} init stream for RPC validators and type unary
2022-06-27 20:15:58.703 1 [info] <0.4254.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.4253.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:15:58.930 1 [error] <0.4253.1>@http2_client:handle_settings:822
gen_server <0.4253.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:15:58.931 1 [error] <0.4253.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4253.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:15:58.931 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4254.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:15:58.932 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:15:58.932 1 [error] <0.4254.1>@Undefined:Undefined:Undefined
gen_server <0.4254.1> terminated with reason: connection_down
```

```
2022-06-27 20:15:58.933 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:15:58.933 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:15:58.933 1 [error] <0.4254.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4254.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:15:58.934 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4253.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5813>,socket_mon =>
#Ref<0.155928093.3974103041.136494>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4254.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:15:58.935 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4254.1>,connection_down}
2022-06-27 20:16:06.820 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
```



```
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:16:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:16:06.821 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:16:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:16:06.822 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5603,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:16:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:16:07.745 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:16:08.936 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:16:09.176 1 [info] <0.4287.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:16:09.177 1 [info] <0.4287.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.4286.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:16:10.883 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4287.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:16:10.884 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:16:10.884 1 [error] <0.4286.1>@http2_client:handle_settings:822
gen_server <0.4286.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:16:10.885 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:16:10.886 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:16:10.887 1 [error] <0.4286.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4286.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:16:10.887 1 [error] <0.4287.1>@Undefined:Undefined:Undefined
gen_server <0.4287.1> terminated with reason: connection_down
2022-06-27 20:16:10.888 1 [error] <0.4287.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4287.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:16:10.891 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4286.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.215.75.202">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5814>,socket_mon =>
#Ref<0.155928093.3974103041.136847>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4287.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:16:10.892 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4287.1>,connection_down}
2022-06-27 20:16:17.885 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:16:20.889 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:16:21.126 1 [info] <0.4290.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:16:21.127 1 [info] <0.4290.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.4289.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:16:21.356 1 [error] <0.4289.1>@http2_client:handle_settings:822
gen_server <0.4289.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 20:16:21.357 1 [error] <0.4289.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4289.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:16:21.357 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4290.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:16:21.357 1 [error] <0.4290.1>@Undefined:Undefined:Undefined
gen_server <0.4290.1> terminated with reason: connection_down
2022-06-27 20:16:21.357 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:16:21.358 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:16:21.358 1 [error] <0.4290.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4290.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:16:21.358 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:16:21.360 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4289.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5815>,socket_mon =>
#Ref<0.155928093.3974103041.137115>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4290.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:16:21.360 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4290.1>,connection_down}
2022-06-27 20:16:28.025 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:16:31.360 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:16:31.443 1 [info] <0.4293.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:16:31.444 1 [info] <0.4293.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.4292.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:16:31.523 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4293.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:16:31.523 1 [error] <0.4292.1>@http2_client:handle_settings:822
gen_server <0.4292.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:16:31.523 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:16:31.524 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:16:31.524 1 [error] <0.4292.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4292.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:16:31.524 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:16:31.524 1 [error] <0.4293.1>@Undefined:Undefined:Undefined
gen_server <0.4293.1> terminated with reason: connection_down
2022-06-27 20:16:31.525 1 [error] <0.4293.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4293.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:16:31.528 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4292.1>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5816>,socket_mon =>
#Ref<0.155928093.3974103041.137236>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4293.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 20:16:31.528 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4293.1>,connection_down} 2022-06-27
20:16:36.824 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:16:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:16:36.825 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:16:36 GMT">>,<<"txnb">> => 0}
2022-06-27 20:16:36.826 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5607,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:16:36 GMT">>,<<"txnb">> => 0}}
```

```
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:16:38.169 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:16:41.527 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:16:41.618 1 [info] <0.4296.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:16:41.619 1 [info] <0.4296.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.4295.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:16:41.706 1 [error] <0.4295.1>@http2_client:handle_settings:822
gen_server <0.4295.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:16:41.708 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4296.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:16:41.709 1 [error] <0.4295.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4295.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```



```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:16:41.709 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:16:41.709 1 [error] <0.4296.1>@Undefined:Undefined:Undefined
gen_server <0.4296.1> terminated with reason: connection_down
2022-06-27 20:16:41.711 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:16:41.711 1 [error] <0.4296.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4296.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:16:41.711 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:16:41.715 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4295.1>,{function_clause,
[{http2_client,handle_settings,
[[[],<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5817>,socket_mon =>
#Ref<0.155928093.3974103041.137364>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4296.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 20:16:41.716 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4296.1>,connection_down}
2022-06-27 20:16:48.312 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:16:51.713 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:16:51.798 1 [info] <0.4299.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:16:51.801 1 [info] <0.4299.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.4298.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:16:51.874 1 [error] <0.4298.1>@http2_client:handle_settings:822
gen_server <0.4298.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:16:51.876 1 [error] <0.4298.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4298.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:16:51.876 1 [error] <0.4299.1>@Undefined:Undefined:Undefined
gen_server <0.4299.1> terminated with reason: connection_down
2022-06-27 20:16:51.876 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4299.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}]
2022-06-27 20:16:51.877 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:16:51.877 1 [error] <0.4299.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4299.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:16:51.878 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:16:51.878 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:16:51.879 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4298.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{52,
{<<":authority">>,<<"3.72.215.7">>}}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5818>,socket_mon =>
#Ref<0.155928093.3974103041.137484>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4299.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>]],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>]],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 20:16:51.879 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4299.1>,connection_down}
2022-06-27 20:16:58.448 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:17:01.881 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:17:02.045 1 [info] <0.4302.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:17:02.046 1 [info] <0.4302.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.4301.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:17:02.200 1 [error] <0.4301.1>@http2_client:handle_settings:822
gen_server <0.4301.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:17:02.203 1 [error] <0.4301.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4301.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:17:02.204 1 [error] <0.4302.1>@Undefined:Undefined:Undefined
gen_server <0.4302.1> terminated with reason: connection_down
```

```
2022-06-27 20:17:02.204 1 [error] <0.4302.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4302.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:17:02.205 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4302.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:17:02.205 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:17:02.205 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:17:02.206 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:17:02.208 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4301.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.13.130.184">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5819>,socket_mon =>
#Ref<0.155928093.3974103041.137611>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4302.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:17:02.209 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4302.1>,connection_down}
2022-06-27 20:17:06.824 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:17:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:17:06.824 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:17:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:17:06.826 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5611,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:17:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:17:08.608 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:17:12.209 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:17:12.486 1 [info] <0.4335.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:17:12.488 1 [info] <0.4335.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.4334.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:17:12.759 1 [error] <0.4334.1>@http2_client:handle_settings:822
gen_server <0.4334.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:17:12.761 1 [error] <0.4334.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4334.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:17:12.761 1 [error] <0.4335.1>@Undefined:Undefined:Undefined
gen_server <0.4335.1> terminated with reason: connection_down
2022-06-27 20:17:12.762 1 [error] <0.4335.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4335.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:17:12.763 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4335.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:17:12.763 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 20:17:12.763 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 20:17:12.764 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:17:12.765 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4334.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.39.165.144",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5820>,socket\_mon => #Ref<0.155928093.3974103041.137887>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.4335.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 20:17:12.766 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4335.1>,connection\_down}

2022-06-27 20:17:18.759 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:17:21.686 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for peerbook <0.1643.0>



```
2022-06-27 20:17:22.766 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:17:22.856 1 [info] <0.4341.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:17:22.857 1 [info] <0.4341.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.4340.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:17:22.943 1 [error] <0.4340.1>@http2_client:handle_settings:822
gen_server <0.4340.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:17:22.944 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4341.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:17:22.944 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:17:22.945 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 20:17:22.945 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:17:22.945 1 [error] <0.4340.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4340.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:17:22.946 1 [error] <0.4341.1>@Undefined:Undefined:Undefined
gen_server <0.4341.1> terminated with reason: connection_down
2022-06-27 20:17:22.946 1 [error] <0.4341.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4341.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:17:22.949 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4340.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5821>,socket_mon =>
#Ref<0.155928093.3974103041.138057>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4341.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:17:22.949 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4341.1>,connection_down}
2022-06-27 20:17:28.899 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:17:32.947 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:17:33.186 1 [info] <0.4344.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:17:33.189 1 [info] <0.4344.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.4343.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:17:33.416 1 [error] <0.4343.1>@http2_client:handle_settings:822
gen_server <0.4343.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:17:33.417 1 [error] <0.4343.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4343.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:17:33.419 1 [error] <0.4344.1>@Undefined:Undefined:Undefined
gen_server <0.4344.1> terminated with reason: connection_down
2022-06-27 20:17:33.419 1 [error] <0.4344.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4344.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:17:33.420 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4344.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 20:17:33.420 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:17:33.421 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:17:33.421 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:17:33.424 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4343.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{53,
{<<":authority">>,<<"13.215.29.4">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5822>,socket_mon =>
#Ref<0.155928093.3974103041.138278>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4344.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[[file,"http2_client.erl"],{line,822}]],
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:17:33.425 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4344.1>,connection_down}
2022-06-27 20:17:36.829 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:17:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:17:36.829 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:17:36 GMT">>,<<"txnb">> => 0}
2022-06-27 20:17:36.830 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5615,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:17:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:17:39.045 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:17:39.159 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 2,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"AE4AAPB+1bNwtDIAACBX+YxEIG9OHEg=">>,<<"datr">> =>
<<"SF7BW125">>,<<"foff">> => 7301,<<"freq">> => 868.5,<<"jver">> =>
1,<<"lsnr">> => -7.8,<<"mid">> => 8,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 1,<<"rssi">> => -106,<<"rssid">> => -114,<<"size">> => 23,<<"stat">> =>
1,<<"tmst">> => 3920209126}} from 12291671073248440251 on 35152
2022-06-27 20:17:43.424 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:17:43.506 1 [info] <0.4348.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:17:43.507 1 [info] <0.4348.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"3.70.55.231">>,http_connection => <0.4347.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:17:43.584 1 [error] <0.4347.1>@http2_client:handle_settings:822
gen_server <0.4347.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:17:43.586 1 [error] <0.4347.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4347.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:17:43.587 1 [error] <0.4348.1>@Undefined:Undefined:Undefined
gen_server <0.4348.1> terminated with reason: connection_down
2022-06-27 20:17:43.588 1 [error] <0.4348.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4348.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:17:43.588 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4348.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:17:43.589 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:17:43.590 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 20:17:43.590 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:17:43.594 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4347.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{53, {<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.70.55.231",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5823>,socket\_mon => #Ref<0.155928093.3974103041.138413>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.4348.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 20:17:43.595 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4348.1>,connection\_down}  
2022-06-27 20:17:49.178 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:17:53.593 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.30.1.39":  
{gateway\_validators\_req\_v1\_pb,1}

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2022-06-27 20:17:54.699 1 [info] <0.4351.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:17:54.701 1 [info] <0.4351.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.4350.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:17:54.785 1 [error] <0.4350.1>@http2_client:handle_settings:822
gen_server <0.4350.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:17:54.787 1 [error] <0.4350.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4350.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:17:54.788 1 [error] <0.4351.1>@Undefined:Undefined:Undefined
gen_server <0.4351.1> terminated with reason: connection_down
2022-06-27 20:17:54.788 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4351.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:17:54.789 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```



```
<<"stream create failed">>}}
2022-06-27 20:17:54.789 1 [error] <0.4351.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4351.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:17:54.789 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:17:54.790 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:17:54.793 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4350.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5824>,socket_mon =>
#Ref<0.155928093.3974103041.138530>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4351.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:17:54.794 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4351.1>,connection_down}
2022-06-27 20:17:59.315 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833

2022-06-27 20:18:04.792 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.70.239.5":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:18:05.025 1 [info] <0.4354.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 20:18:05.027 1 [info] <0.4354.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"54.70.239.5">>,http\_connection => <0.4353.1>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[],[]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 20:18:05.250 1 [error] <0.4353.1>@http2\_client:handle\_settings:822

gen\_server <0.4353.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 20:18:05.252 1 [error] <0.4353.1>@http2\_client:handle\_settings:822

CRASH REPORT Process <0.4353.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 20:18:05.252 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.4354.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},

{miner\_poc\_grpc\_client\_statem,setup,3,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},

{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}

```
2022-06-27 20:18:05.252 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:18:05.253 1 [error] <0.4354.1>@Undefined:Undefined:Undefined
gen_server <0.4354.1> terminated with reason: connection_down
2022-06-27 20:18:05.253 1 [error] <0.4354.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4354.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:18:05.253 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:18:05.253 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:18:05.255 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4353.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"54.70.239.5">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5825>,socket_mon =>
#Ref<0.155928093.3974103041.138659>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4354.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 20:18:05.255 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4354.1>,connection\_down}

2022-06-27 20:18:06.833 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:18:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 20:18:06.834 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:18:06 GMT">>,<<"txnb">> => 0}

2022-06-27 20:18:06.835 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway #gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5619,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:18:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 20:18:09.455 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:18:15.256 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.13.130.184": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:18:15.419 1 [info] <0.4363.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 20:18:15.421 1 [info] <0.4363.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.13.130.184">>,http\_connection => <0.4361.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[ ]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 20:18:15.573 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.4363.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2,

```
[[file,"grpc_client_stream_custom.erl"],{line,418}]],{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 20:18:15.574 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:18:15.574 1 [error] <0.4361.1>@http2_client:handle_settings:822
gen_server <0.4361.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:18:15.574 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:18:15.574 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:18:15.575 1 [error] <0.4361.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4361.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:18:15.575 1 [error] <0.4363.1>@Undefined:Undefined:Undefined
gen_server <0.4363.1> terminated with reason: connection_down
2022-06-27 20:18:15.576 1 [error] <0.4363.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4363.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:18:15.576 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4361.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5826>,socket_mon =>
#Ref<0.155928093.3973316611.182116>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4363.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:18:15.577 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4363.1>,connection_down} 2022-06-27
20:18:19.598 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:18:25.577 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:18:25.907 1 [info] <0.4385.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:18:25.908 1 [info] <0.4385.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.4384.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:18:26.232 1 [error] <0.4384.1>@http2_client:handle_settings:822
```

```
gen_server <0.4384.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:18:26.233 1 [error] <0.4384.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4384.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:18:26.236 1 [error] <0.4385.1>@Undefined:Undefined:Undefined
gen_server <0.4385.1> terminated with reason: connection_down
2022-06-27 20:18:26.236 1 [error] <0.4385.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4385.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:18:26.238 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4385.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:18:26.238 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:18:26.238 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:18:26.238 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:18:26.240 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4384.1>,{function_clause,
```

```
{http2_client,handle_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client_settings => #{enable_push => 0,header_table_size =>  
4096,initial_window_size => 65535,low_water_mark =>  
16384,max_concurrent_streams => undefined,max_frame_size =>  
16384},client_window => 65535,continuation_data => undefined,decode_state =>  
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{56,  
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "13.237.155.172",last_stream => 1,owner =>  
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size  
=> 4096,initial_window_size => 65535,low_water_mark =>  
16384,max_concurrent_streams => undefined,max_frame_size =>  
16384},server_window => 65528,socket => #Port<0.5827>,socket_mon =>  
#Ref<0.155928093.3974103041.139033>,state => open,stream_count =>  
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>  
1,owner => <0.4385.1>,server_window => 65528,state =>  
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>  
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>  
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>  
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],  
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],  
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],  
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],  
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]  
2022-06-27 20:18:26.240 1 [warning]  
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.4385.1>,connection_down} 2022-06-27  
20:18:29.748 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}  
PULL_DATA from 12291671073248440251 on 56833  
2022-06-27 20:18:36.241 1 [info]  
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send  
unary request via new connection to ip "18.230.8.198":  
{gateway_validators_req_v1_pb,1}  
2022-06-27 20:18:36.520 1 [info] <0.4388.1>@grpc_client_stream_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 20:18:36.521 1 [info] <0.4388.1>@grpc_client_stream_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2_client,host =>  
<<"18.230.8.198">>,http_connection => <0.4387.1>,scheme =>  
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>  
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```



```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:18:36.794 1 [error] <0.4387.1>@http2_client:handle_settings:822
gen_server <0.4387.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:18:36.796 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4388.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:18:36.796 1 [error] <0.4387.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4387.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:18:36.796 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:18:36.796 1 [error] <0.4388.1>@Undefined:Undefined:Undefined
gen_server <0.4388.1> terminated with reason: connection_down
2022-06-27 20:18:36.796 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:18:36.796 1 [error] <0.4388.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4388.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:18:36.797 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 20:18:36.798 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4387.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5828>,socket_mon =>
#Ref<0.155928093.3973578754.80886>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4388.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:18:36.799 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4388.1>,connection_down}
2022-06-27 20:18:36.833 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:18:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:18:36.834 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:18:36 GMT">>,<<"txnb">> => 0}
2022-06-27 20:18:36.835 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
```

```
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5623,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:18:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:18:39.888 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:18:46.798 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:18:46.966 1 [info] <0.4391.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:18:46.969 1 [info] <0.4391.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.4390.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:18:47.125 1 [error] <0.4390.1>@http2_client:handle_settings:822
gen_server <0.4390.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:18:47.127 1 [error] <0.4390.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4390.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:18:47.128 1 [error] <0.4391.1>@Undefined:Undefined:Undefined
gen_server <0.4391.1> terminated with reason: connection_down
2022-06-27 20:18:47.128 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4391.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl"},{line,418}}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:18:47.128 1 [error] <0.4391.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4391.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:18:47.128 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:18:47.129 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:18:47.129 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:18:47.131 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4390.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5829>,socket_mon =>
#Ref<0.155928093.3973578754.80917>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4391.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 20:18:47.131 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4391.1>,connection_down}
2022-06-27 20:18:50.029 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:18:57.131 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:18:57.212 1 [info] <0.4394.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:18:57.213 1 [info] <0.4394.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.4393.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:18:57.291 1 [error] <0.4393.1>@http2_client:handle_settings:822
gen_server <0.4393.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:18:57.293 1 [error] <0.4393.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4393.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:18:57.293 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.4394.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:18:57.294 1 [error] <0.4394.1>@Undefined:Undefined:Undefined
gen_server <0.4394.1> terminated with reason: connection_down
2022-06-27 20:18:57.294 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:18:57.294 1 [error] <0.4394.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4394.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:18:57.295 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:18:57.295 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:18:57.300 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4393.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"3.72.215.7">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5830>,socket_mon =>
#Ref<0.155928093.3974103041.139373>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4394.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:18:57.301 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4394.1>,connection_down}
2022-06-27 20:19:00.175 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:19:06.828 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:19:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:19:06.828 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:19:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:19:06.829 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5627,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:19:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:19:07.297 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:19:10.331 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:19:20.489 1 [info]
```

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:19:30.632 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:19:36.828 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:19:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 20:19:36.829 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:19:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 20:19:36.830 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5631,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:19:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 20:19:37.301 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}]],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}]],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}]],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}]],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}}]]  
2022-06-27 20:19:37.301 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:19:37.302 1 [error] <0.4396.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.4396.1> with 0 neighbours exited with reason: timeout in gen\_server:init\_it/6 line 407  
2022-06-27 20:19:37.302 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4396.1>,timeout}  
2022-06-27 20:19:37.976 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/



112n4MnAMur2AeQhnrzbZE8hx5aonTAyuzYaWU9Cq8BZM3XSwV3X" informed us of our observed address "/ip4/80.77.186.186/tcp/51770"

2022-06-27 20:19:40.772 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:19:47.304 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "44.229.159.157":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:19:47.539 1 [info] <0.4455.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 20:19:47.542 1 [info] <0.4455.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"44.229.159.157">>,http\_connection => <0.4454.1>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 20:19:47.767 1 [error] <0.4454.1>@http2\_client:handle\_settings:822 gen\_server <0.4454.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:19:47.768 1 [error] <0.4454.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.4454.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:19:47.771 1 [error] <0.4455.1>@Undefined:Undefined:Undefined gen\_server <0.4455.1> terminated with reason: connection\_down

2022-06-27 20:19:47.772 1 [error] <0.4455.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.4455.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:19:47.774 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.4455.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

```
[[file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl",{line,226}}]}]
2022-06-27 20:19:47.775 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:19:47.775 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:19:47.776 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:19:47.778 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4454.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5842>,socket_mon =>
#Ref<0.155928093.3974103041.140575>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4455.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[file,"http2_client.erl",{line,822}}],
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 20:19:47.779 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4455.1>,connection_down}
2022-06-27 20:19:50.904 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:19:57.779 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:19:58.015 1 [info] <0.4458.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:19:58.016 1 [info] <0.4458.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.4457.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:19:58.248 1 [error] <0.4457.1>@http2_client:handle_settings:822
gen_server <0.4457.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:19:58.249 1 [error] <0.4457.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4457.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:19:58.249 1 [error] <0.4458.1>@Undefined:Undefined:Undefined
gen_server <0.4458.1> terminated with reason: connection_down
2022-06-27 20:19:58.250 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4458.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}],{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:19:58.250 1 [error] <0.4458.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4458.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:19:58.250 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:19:58.251 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:19:58.251 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:19:58.255 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4457.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"52.220.227.216">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5843>,socket_mon =>
#Ref<0.155928093.3973316611.183357>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.4458.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 20:19:58.256 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4458.1>,connection_down}
2022-06-27 20:20:01.048 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:20:01.318 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 0,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"AE4AAPB+1bNwtDIAACBX+YxcwyqTbUc=">>,<<"datr">> =>
<<"SF7BW125">>,<<"foff">> => 7378,<<"freq">> => 868.1,<<"jver">> =>
1,<<"lsnr">> => -5.8,<<"mid">> => 8,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 1,<<"rssi">> => -109,<<"rssid">> => -115,<<"size">> => 23,<<"stat">> =>
1,<<"tmst">> => 4062364378}}] from 12291671073248440251 on 35152
2022-06-27 20:20:06.834 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:20:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:20:06.835 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> =>
1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:20:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:20:06.838 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5635,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:20:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:20:08.254 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
```

```
{gateway_validators_req_v1_pb,1}
2022-06-27 20:20:08.531 1 [info] <0.4462.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:20:08.532 1 [info] <0.4462.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.4461.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:20:08.804 1 [error] <0.4461.1>@http2_client:handle_settings:822
gen_server <0.4461.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:20:08.806 1 [error] <0.4461.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4461.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:20:08.807 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4462.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:20:08.807 1 [error] <0.4462.1>@Undefined:Undefined:Undefined
gen_server <0.4462.1> terminated with reason: connection_down
2022-06-27 20:20:08.808 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 20:20:08.808 1 [error] <0.4462.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.4462.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:20:08.809 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 20:20:08.809 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 20:20:08.812 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.4461.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{56,  
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "54.207.131.103",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5844>,socket\_mon =>  
#Ref<0.155928093.3974103041.141100>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.4462.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl",{line,822}}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}]}

2022-06-27 20:20:08.815 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.4462.1>,connection\_down}

2022-06-27 20:20:11.185 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:20:18.812 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:20:18.895 1 [info] <0.4465.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:20:18.896 1 [info] <0.4465.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.4464.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:20:18.971 1 [error] <0.4464.1>@http2_client:handle_settings:822
gen_server <0.4464.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:20:18.973 1 [error] <0.4464.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4464.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:20:18.973 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4465.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```



```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 20:20:18.973 1 [error] <0.4465.1>@Undefined:Undefined:Undefined
gen_server <0.4465.1> terminated with reason: connection_down
2022-06-27 20:20:18.973 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:20:18.974 1 [error] <0.4465.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4465.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:20:18.974 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:20:18.974 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:20:18.976 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4464.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5845>,socket_mon =>
#Ref<0.155928093.3974103041.141319>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4465.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 20:20:18.977 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4465.1>,connection_down}
2022-06-27 20:20:21.335 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:20:28.977 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:20:29.252 1 [info] <0.4502.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:20:29.253 1 [info] <0.4502.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.4498.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:20:29.522 1 [error] <0.4498.1>@http2_client:handle_settings:822
gen_server <0.4498.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:20:29.523 1 [error] <0.4498.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4498.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:20:29.524 1 [error] <0.4502.1>@Undefined:Undefined:Undefined
gen_server <0.4502.1> terminated with reason: connection_down
2022-06-27 20:20:29.525 1 [error] <0.4502.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4502.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:20:29.525 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4502.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:20:29.525 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:20:29.526 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:20:29.526 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:20:29.527 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4498.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5851>,socket_mon =>
#Ref<0.155928093.3973316611.183773>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4502.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:20:29.528 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4502.1>,connection_down}
2022-06-27 20:20:31.475 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:20:36.841 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:20:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:20:36.842 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:20:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:20:36.844 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5639,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:20:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:20:39.529 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:20:39.809 1 [info] <0.4515.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:20:39.811 1 [info] <0.4515.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.4514.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:20:40.086 1 [error] <0.4514.1>@http2_client:handle_settings:822
gen_server <0.4514.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:20:40.090 1 [error] <0.4514.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4514.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:20:40.090 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4515.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:20:40.091 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:20:40.091 1 [error] <0.4515.1>@Undefined:Undefined:Undefined
gen_server <0.4515.1> terminated with reason: connection_down
2022-06-27 20:20:40.092 1 [error] <0.4515.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4515.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:20:40.092 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:20:40.092 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

2022-06-27 20:20:40.096 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4514.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5852>,socket_mon =>
#Ref<0.155928093.3974103041.141795>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4515.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 20:20:40.097 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4515.1>,connection_down}
```

2022-06-27 20:20:41.625 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 20:20:50.095 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
```

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 20:20:50.370 1 [info] <0.4522.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 20:20:50.372 1 [info] <0.4522.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"54.207.131.103">>,http_connection => <0.4521.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:20:50.639 1 [error] <0.4521.1>@http2_client:handle_settings:822
gen_server <0.4521.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:20:50.640 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4522.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:20:50.640 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:20:50.641 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:20:50.641 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:20:50.642 1 [error] <0.4521.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4521.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 20:20:50.642 1 [error] <0.4522.1>@Undefined:Undefined:Undefined  
gen\_server <0.4522.1> terminated with reason: connection\_down

2022-06-27 20:20:50.643 1 [error] <0.4522.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.4522.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:20:50.643 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.4521.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{56,  
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "54.207.131.103",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5853>,socket\_mon =>  
#Ref<0.155928093.3973054468.217162>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.4522.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 20:20:50.644 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.4522.1>,connection\_down}

2022-06-27 20:20:51.778 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

2022-06-27 20:21:00.644 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.237.155.172":  
{gateway\_validators\_req\_v1\_pb,1}



```
2022-06-27 20:21:00.977 1 [info] <0.4525.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:21:00.979 1 [info] <0.4525.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.4524.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:21:01.882 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4525.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:21:01.883 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:21:01.883 1 [error] <0.4524.1>@http2_client:handle_settings:822
gen_server <0.4524.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:21:01.883 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:21:01.883 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:21:01.884 1 [error] <0.4524.1>@http2_client:handle_settings:822
```

CRASH REPORT Process <0.4524.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 20:21:01.885 1 [error] <0.4525.1>@Undefined:Undefined:Undefined gen\_server <0.4525.1> terminated with reason: connection\_down  
2022-06-27 20:21:01.885 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4524.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{56, {<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}]}]},host => "13.237.155.172",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5854>,socket\_mon => #Ref<0.155928093.3973054468.217200>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.4525.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}]},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}  
2022-06-27 20:21:01.885 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4525.1>,connection\_down}  
2022-06-27 20:21:01.885 1 [error] <0.4525.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.4525.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:21:01.931 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from

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12291671073248440251 on 56833
2022-06-27 20:21:06.836 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:21:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:21:06.837 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:21:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:21:06.838 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5643,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:21:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:21:11.885 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:21:11.981 1 [info] <0.4528.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:21:11.982 1 [info] <0.4528.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.4527.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:21:12.066 1 [error] <0.4527.1>@http2_client:handle_settings:822
gen_server <0.4527.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:21:12.067 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4528.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:21:12.068 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:21:12.069 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:21:12.069 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:21:12.071 1 [error] <0.4527.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4527.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:21:12.071 1 [error] <0.4528.1>@Undefined:Undefined:Undefined
gen_server <0.4528.1> terminated with reason: connection_down
2022-06-27 20:21:12.072 1 [error] <0.4528.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4528.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:21:12.073 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4527.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
```

```
{<<":authority">>,<<"52.210.14.128">>},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5855>,socket_mon =>
#Ref<0.155928093.3973054468.217226>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4528.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:21:12.074 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4528.1>,connection_down}
2022-06-27 20:21:12.078 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:21:22.071 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:21:22.226 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:21:23.419 1 [info] <0.4532.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:21:23.421 1 [info] <0.4532.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.4531.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:21:23.744 1 [error] <0.4531.1>@http2_client:handle_settings:822
gen_server <0.4531.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:21:23.745 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4532.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:21:23.745 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:21:23.746 1 [error] <0.4531.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4531.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:21:23.746 1 [error] <0.4532.1>@Undefined:Undefined:Undefined
gen_server <0.4532.1> terminated with reason: connection_down
2022-06-27 20:21:23.747 1 [error] <0.4532.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4532.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:21:23.747 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:21:23.748 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:21:23.749 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4531.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5856>,socket_mon =>
#Ref<0.155928093.3974103041.142187>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4532.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:21:23.750 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4532.1>,connection_down} 2022-06-27
20:21:32.361 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:21:33.750 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:21:34.085 1 [info] <0.4553.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:21:34.086 1 [info] <0.4553.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.4552.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:21:34.414 1 [error] <0.4552.1>@http2_client:handle_settings:822
gen_server <0.4552.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:21:34.415 1 [error] <0.4552.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4552.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:21:34.416 1 [error] <0.4553.1>@Undefined:Undefined:Undefined
gen_server <0.4553.1> terminated with reason: connection_down
2022-06-27 20:21:34.416 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4553.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:21:34.416 1 [error] <0.4553.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4553.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:21:34.416 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:21:34.416 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:21:34.416 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```



2022-06-27 20:21:34.418 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4552.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.211.55.217">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5857>,socket_mon =>
#Ref<0.155928093.3974103041.142383>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4553.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 20:21:34.419 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4553.1>,connection_down}
```

2022-06-27 20:21:36.843 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:21:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

```
2022-06-27 20:21:36.844 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:21:36 GMT">>,<<"txnb">> => 0}
```

```
2022-06-27 20:21:36.845 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5647,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:21:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:21:42.518 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:21:44.419 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:21:44.692 1 [info] <0.4569.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:21:44.694 1 [info] <0.4569.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.4568.1>,>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:21:44.957 1 [error] <0.4568.1>@http2_client:handle_settings:822
gen_server <0.4568.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:21:44.958 1 [error] <0.4568.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4568.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:21:44.958 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4569.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
{file,"miner_poc_grpc_client_statem.erl",{line,721}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}
2022-06-27 20:21:44.959 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:21:44.959 1 [error] <0.4569.1>@Undefined:Undefined:Undefined
gen_server <0.4569.1> terminated with reason: connection_down
2022-06-27 20:21:44.959 1 [error] <0.4569.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4569.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:21:44.960 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:21:44.960 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:21:44.962 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4568.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5858>,socket_mon =>
#Ref<0.155928093.3973054468.217337>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4569.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}}
2022-06-27 20:21:44.963 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4569.1>,connection_down} 2022-06-27
20:21:52.672 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:21:54.963 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:21:55.204 1 [info] <0.4576.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:21:55.206 1 [info] <0.4576.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.4575.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:21:55.434 1 [error] <0.4575.1>@http2_client:handle_settings:822
gen_server <0.4575.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:21:55.435 1 [error] <0.4575.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4575.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:21:55.435 1 [error] <0.4576.1>@Undefined:Undefined:Undefined
gen_server <0.4576.1> terminated with reason: connection_down
2022-06-27 20:21:55.436 1 [error] <0.4576.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4576.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:21:55.436 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4576.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:21:55.436 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:21:55.437 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:21:55.437 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:21:55.438 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4575.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5859>,socket_mon =>
```

```
#Ref<0.155928093.3973054468.217362>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4576.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 20:21:55.439 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4576.1>,connection_down}
2022-06-27 20:22:02.819 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:22:05.440 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:22:05.682 1 [info] <0.4579.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:22:05.684 1 [info] <0.4579.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.4578.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:22:05.915 1 [error] <0.4578.1>@http2_client:handle_settings:822
gen_server <0.4578.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:22:05.918 1 [error] <0.4578.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4578.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 20:22:05.918 1 [error] <0.4579.1>@Undefined:Undefined:Undefined
gen_server <0.4579.1> terminated with reason: connection_down
2022-06-27 20:22:05.919 1 [error] <0.4579.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4579.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:22:05.920 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4579.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:22:05.921 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:22:05.921 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:22:05.921 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:22:05.923 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4578.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5860>,socket_mon =>
#Ref<0.155928093.3974103041.142750>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4579.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:22:05.924 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4579.1>,connection_down}
2022-06-27 20:22:06.846 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:22:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:22:06.847 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:22:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:22:06.848 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5651,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:22:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:22:12.958 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:22:15.923 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
```



```
2022-06-27 20:22:16.087 1 [info] <0.4582.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:22:16.089 1 [info] <0.4582.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.4581.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:22:16.448 1 [error] <0.4581.1>@http2_client:handle_settings:822
gen_server <0.4581.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:22:16.449 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4582.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:22:16.449 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:22:16.449 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:22:16.450 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:22:16.451 1 [error] <0.4581.1>@http2_client:handle_settings:822
```

CRASH REPORT Process <0.4581.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 20:22:16.451 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4581.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096, [{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"3.132.190.192">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.132.190.192",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5861>,socket\_mon => #Ref<0.155928093.3974103041.142853>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.4582.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}}]}}  
2022-06-27 20:22:16.451 1 [error] <0.4582.1>@Undefined:Undefined:Undefined gen\_server <0.4582.1> terminated with reason: connection\_down  
2022-06-27 20:22:16.451 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4582.1>,connection\_down} 2022-06-27 20:22:16.451 1 [error] <0.4582.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.4582.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:22:21.687 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for

```
peerbook <0.1640.0>
2022-06-27 20:22:23.105 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:22:26.452 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:22:26.534 1 [info] <0.4587.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:22:26.535 1 [info] <0.4587.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.4586.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:22:26.612 1 [error] <0.4586.1>@http2_client:handle_settings:822
gen_server <0.4586.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:22:26.614 1 [error] <0.4586.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4586.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:22:26.618 1 [error] <0.4587.1>@Undefined:Undefined:Undefined
gen_server <0.4587.1> terminated with reason: connection_down
2022-06-27 20:22:26.618 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4587.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:22:26.619 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:22:26.619 1 [error] <0.4587.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4587.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:22:26.620 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:22:26.620 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:22:26.624 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4586.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5862>,socket_mon =>
#Ref<0.155928093.3974103041.142957>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4587.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:22:26.624 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4587.1>,connection_down}
2022-06-27 20:22:33.248 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:22:36.622 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:22:36.707 1 [info] <0.4594.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:22:36.709 1 [info] <0.4594.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.4593.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:22:36.829 1 [error] <0.4593.1>@http2_client:handle_settings:822
gen_server <0.4593.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:22:36.831 1 [error] <0.4593.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4593.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:22:36.832 1 [error] <0.4594.1>@Undefined:Undefined:Undefined
gen_server <0.4594.1> terminated with reason: connection_down
2022-06-27 20:22:36.832 1 [error] <0.4594.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4594.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:22:36.833 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.4594.1>,{rcv,10000},infinity]}}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:22:36.833 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:22:36.834 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:22:36.834 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:22:36.836 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4593.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"3.72.215.7">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5863>,socket_mon =>
#Ref<0.155928093.3974103041.143062>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4594.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 20:22:36.836 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4594.1>,connection_down}
2022-06-27 20:22:36.842 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:22:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:22:36.842 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 1,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:22:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:22:36.843 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5655,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:22:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:22:38.151 1 [warning]
<0.1644.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/
ip4/3.67.159.30/tcp/443": {exit,{normal,{gen_server,call,[<0.3602.1>,open]}}}
2022-06-27 20:22:43.405 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:22:46.837 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:22:47.071 1 [info] <0.4616.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:22:47.072 1 [info] <0.4616.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"44.229.159.157">>,http_connection => <0.4615.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:22:47.304 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4616.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:22:47.304 1 [error] <0.4615.1>@http2_client:handle_settings:822
gen_server <0.4615.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:22:47.304 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:22:47.305 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:22:47.305 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:22:47.305 1 [error] <0.4615.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4615.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```



2022-06-27 20:22:47.306 1 [error] <0.4616.1>@Undefined:Undefined:Undefined  
gen\_server <0.4616.1> terminated with reason: connection\_down  
2022-06-27 20:22:47.307 1 [error] <0.4616.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.4616.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:22:47.309 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.4615.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,  
{<<":authority">>,<<"44.229.159.157">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "44.229.159.157",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5864>,socket\_mon =>  
#Ref<0.155928093.3974103041.143147>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.4616.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}  
2022-06-27 20:22:47.310 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.4616.1>,connection\_down}  
2022-06-27 20:22:53.552 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:22:57.308 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "18.228.115.118":  
{gateway\_validators\_req\_v1\_pb,1}

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2022-06-27 20:22:57.588 1 [info] <0.4625.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:22:57.590 1 [info] <0.4625.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.4624.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:22:57.863 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4625.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:22:57.863 1 [error] <0.4624.1>@http2_client:handle_settings:822
gen_server <0.4624.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:22:57.863 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:22:57.864 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:22:57.864 1 [error] <0.4624.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4624.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:22:57.865 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:22:57.865 1 [error] <0.4625.1>@Undefined:Undefined:Undefined
gen_server <0.4625.1> terminated with reason: connection_down
2022-06-27 20:22:57.867 1 [error] <0.4625.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4625.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:22:57.868 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4624.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5865>,socket_mon =>
#Ref<0.155928093.3974103041.143307>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4625.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}}
2022-06-27 20:22:57.869 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4625.1>,connection_down}
2022-06-27 20:23:00.321 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
```

112CDtw1uhiT3MxLtkSqBcikwmmv3ZYvQ4SN7VdzdvsHC2eVvfCS" informed us of our observed address "/ip4/80.77.186.186/tcp/12435"

2022-06-27 20:23:03.691 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:23:06.845 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #{"stat": => #{"ackr": => 0.0, "dwnb": => 0, "rxfw": => 0, "rxnb": => 0, "rxok": => 0, "temp": => 0.0, "time": => "2022-06-27 20:23:06 GMT"}, "txnb": => 0}} from 12291671073248440251 on 35152

2022-06-27 20:23:06.845 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #{"ackr": => 0.0, "dwnb": => 0, "rxfw": => 0, "rxnb": => 0, "rxok": => 0, "temp": => 0.0, "time": => "2022-06-27 20:23:06 GMT"}, "txnb": => 0}

2022-06-27 20:23:06.846 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_json\_data:{440,5} Gateway #gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5659,dropped=0,status=#{"ackr": => 0.0, "dwnb": => 0, "rxfw": => 0, "rxnb": => 0, "rxok": => 0, "temp": => 0.0, "time": => "2022-06-27 20:23:06 GMT"}, "txnb": => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 20:23:07.867 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.70.55.231":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:23:07.948 1 [info] <0.4644.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 20:23:07.949 1 [info] <0.4644.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"3.70.55.231">>,http\_connection => <0.4643.1>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[[],[]],response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 20:23:08.029 1 [error] <0.4643.1>@http2\_client:handle\_settings:822 gen\_server <0.4643.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 20:23:08.029 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4644.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:23:08.030 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:23:08.031 1 [error] <0.4643.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4643.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 20:23:08.032 1 [error] <0.4644.1>@Undefined:Undefined:Undefined
gen_server <0.4644.1> terminated with reason: connection_down
2022-06-27 20:23:08.033 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:23:08.033 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:23:08.033 1 [error] <0.4644.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4644.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:23:08.038 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4643.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5873>,socket_mon =>
#Ref<0.155928093.3974103041.143404>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4644.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:23:08.039 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4644.1>,connection_down} 2022-06-27
20:23:13.838 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:23:18.036 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:23:18.127 1 [info] <0.4647.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:23:18.128 1 [info] <0.4647.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.4646.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:23:18.212 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4647.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:23:18.212 1 [error] <0.4646.1>@http2_client:handle_settings:822
gen_server <0.4646.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:23:18.213 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:23:18.213 1 [error] <0.4646.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4646.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:23:18.214 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:23:18.214 1 [error] <0.4647.1>@Undefined:Undefined:Undefined
gen_server <0.4647.1> terminated with reason: connection_down
2022-06-27 20:23:18.214 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:23:18.214 1 [error] <0.4647.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4647.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:23:18.216 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4646.1>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5874>,socket_mon =>
#Ref<0.155928093.3974103041.143501>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4647.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 20:23:18.216 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4647.1>,connection_down}
2022-06-27 20:23:23.988 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:23:28.217 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:23:28.307 1 [info] <0.4651.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:23:28.308 1 [info] <0.4651.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.4650.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```



```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:23:28.392 1 [error] <0.4650.1>@http2_client:handle_settings:822
gen_server <0.4650.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:23:28.393 1 [error] <0.4650.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4650.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:23:28.394 1 [error] <0.4651.1>@Undefined:Undefined:Undefined
gen_server <0.4651.1> terminated with reason: connection_down
2022-06-27 20:23:28.395 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4651.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:23:28.395 1 [error] <0.4651.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4651.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:23:28.395 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:23:28.395 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:23:28.395 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:23:28.397 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4650.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {54, {<<":authority">>,<<"52.30.111.82">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "52.30.111.82",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5875>,socket\_mon => #Ref<0.155928093.3974103041.143586>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.4651.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}]  
2022-06-27 20:23:28.397 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4651.1>,connection\_down}  
2022-06-27 20:23:34.138 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:23:36.840 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:23:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 20:23:36.840 1 [info]

```
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:23:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:23:36.841 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5663,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:23:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:23:38.398 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:23:38.631 1 [info] <0.4655.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:23:38.633 1 [info] <0.4655.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.4654.1>,>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:23:38.856 1 [error] <0.4654.1>@http2_client:handle_settings:822
gen_server <0.4654.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:23:38.859 1 [error] <0.4654.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4654.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:23:38.860 1 [error] <0.4655.1>@Undefined:Undefined:Undefined
gen_server <0.4655.1> terminated with reason: connection_down
2022-06-27 20:23:38.860 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4655.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]],
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:23:38.861 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:23:38.861 1 [error] <0.4655.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4655.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:23:38.862 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:23:38.862 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:23:38.865 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4654.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"44.229.159.157">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5876>,socket_mon =>
#Ref<0.155928093.3974103041.143676>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4655.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:23:38.866 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4655.1>,connection_down}
2022-06-27 20:23:44.288 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:23:48.865 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:23:49.094 1 [info] <0.4686.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:23:49.096 1 [info] <0.4686.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.4685.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:23:49.318 1 [error] <0.4685.1>@http2_client:handle_settings:822
gen_server <0.4685.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:23:49.319 1 [error] <0.4685.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4685.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 20:23:49.320 1 [error] <0.4686.1>@Undefined:Undefined:Undefined
gen_server <0.4686.1> terminated with reason: connection_down
2022-06-27 20:23:49.321 1 [error] <0.4686.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4686.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:23:49.322 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4686.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:23:49.322 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:23:49.323 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:23:49.323 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:23:49.324 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4685.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5878>,socket_mon =>
#Ref<0.155928093.3974103041.143817>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4686.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:23:49.325 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4686.1>,connection_down}
2022-06-27 20:23:54.439 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:23:59.325 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:23:59.657 1 [info] <0.4698.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:23:59.658 1 [info] <0.4698.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.4695.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:23:59.986 1 [error] <0.4695.1>@http2_client:handle_settings:822
gen_server <0.4695.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:23:59.986 1 [error] <0.4695.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.4695.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:23:59.987 1 [error] <0.4698.1>@Undefined:Undefined:Undefined
gen_server <0.4698.1> terminated with reason: connection_down
2022-06-27 20:23:59.987 1 [error] <0.4698.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4698.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:23:59.988 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4698.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:23:59.988 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:23:59.989 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:23:59.989 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:23:59.991 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4695.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```



```
{state,0,4096,4096,[],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5879>,socket_mon =>
#Ref<0.155928093.3973316611.186903>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4698.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 20:23:59.991 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4698.1>,connection_down} 2022-06-27
20:24:04.578 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:24:06.847 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:24:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:24:06.847 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:24:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:24:06.849 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5667,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:24:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:24:09.991 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:24:10.324 1 [info] <0.4706.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:24:10.324 1 [info] <0.4706.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2_client,host => <<"3.104.32.11">>,http_connection => <0.4705.1>,scheme => <<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input => gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway_resp_v1_pb,output_stream => false,package => [],queue => {[],[]},response_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod: miner_poc_grpc_client_handler
2022-06-27 20:24:10.867 1 [error] <0.4705.1>@http2_client:handle_settings:822 gen_server <0.4705.1> terminated with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:24:10.869 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down, {gen_server,call,[<0.4706.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3, [{file,"gen_server.erl"},{line,247}]}, {grpc_client_stream_custom,process_response,2, [{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6, [{file,"grpc_client_custom.erl"},{line,278}]}, {miner_poc_grpc_client_statem,send_grpc_unary_req,4, [{file,"miner_poc_grpc_client_statem.erl"},{line,721}]}, {miner_poc_grpc_client_statem,find_validator,0, [{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}, {miner_poc_grpc_client_statem,setup,3, [{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}, {gen_statem,loop_state_callback,11, [{file,"gen_statem.erl"},{line,1203}]}, {proc_lib,init_p_do_apply,3, [{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:24:10.870 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New Connection, send unary result: {error,#{error_type => client,status_message => <<"stream create failed">>}}
2022-06-27 20:24:10.870 1 [error] <0.4705.1>@http2_client:handle_settings:822 CRASH REPORT Process <0.4705.1> with 0 neighbours crashed with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:24:10.871 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:24:10.871 1 [error] <0.4706.1>@Undefined:Undefined:Undefined
gen_server <0.4706.1> terminated with reason: connection_down
2022-06-27 20:24:10.871 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:24:10.872 1 [error] <0.4706.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4706.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:24:10.874 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4705.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5880>,socket_mon =>
#Ref<0.155928093.3974103041.144301>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4706.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:24:10.875 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.4706.1>,connection_down}
2022-06-27 20:24:14.718 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:24:20.874 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:24:21.105 1 [info] <0.4709.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:24:21.106 1 [info] <0.4709.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.4708.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:24:21.331 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4709.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:24:21.331 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:24:21.331 1 [error] <0.4708.1>@http2_client:handle_settings:822
gen_server <0.4708.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 20:24:21.332 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:24:21.332 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:24:21.332 1 [error] <0.4708.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4708.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 20:24:21.333 1 [error] <0.4709.1>@Undefined:Undefined:Undefined
gen_server <0.4709.1> terminated with reason: connection_down
2022-06-27 20:24:21.333 1 [error] <0.4709.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4709.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:24:21.334 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4708.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{53,
{<<":authority">>,<<"54.70.239.5">>}}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5881>,socket_mon =>
#Ref<0.155928093.3974103041.144493>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4709.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:24:21.335 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4709.1>,connection_down} 2022-06-27
20:24:24.865 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:24:31.335 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:24:31.615 1 [info] <0.4712.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:24:31.617 1 [info] <0.4712.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.4711.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:24:31.889 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4712.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:24:31.889 1 [error] <0.4711.1>@http2_client:handle_settings:822
gen_server <0.4711.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 20:24:31.890 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:24:31.891 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:24:31.892 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:24:31.892 1 [error] <0.4711.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4711.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 20:24:31.895 1 [error] <0.4712.1>@Undefined:Undefined:Undefined
gen_server <0.4712.1> terminated with reason: connection_down
2022-06-27 20:24:31.896 1 [error] <0.4712.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4712.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:24:31.896 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4711.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5882>,socket_mon =>
#Ref<0.155928093.3974103041.144708>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4712.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 20:24:31.897 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4712.1>,connection_down}
2022-06-27 20:24:35.018 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:24:36.851 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:24:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:24:36.852 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:24:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:24:36.854 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5671,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:24:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:24:41.895 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:24:42.132 1 [info] <0.4715.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:24:42.133 1 [info] <0.4715.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.4714.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```



```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:24:42.363 1 [error] <0.4714.1>@http2_client:handle_settings:822
gen_server <0.4714.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:24:42.365 1 [error] <0.4714.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4714.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:24:42.365 1 [error] <0.4715.1>@Undefined:Undefined:Undefined
gen_server <0.4715.1> terminated with reason: connection_down
2022-06-27 20:24:42.366 1 [error] <0.4715.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4715.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:24:42.366 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4715.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:24:42.367 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:24:42.367 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:24:42.367 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 20:24:42.369 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4714.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5883>,socket_mon =>
#Ref<0.155928093.3974103041.144919>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4715.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:24:42.369 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4715.1>,connection_down}
2022-06-27 20:24:45.169 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:24:52.370 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:24:52.608 1 [info] <0.4734.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:24:52.610 1 [info] <0.4734.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.4731.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:24:52.841 1 [error] <0.4731.1>@http2_client:handle_settings:822
gen_server <0.4731.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:24:52.842 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4734.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:24:52.842 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:24:52.843 1 [error] <0.4731.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4731.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:24:52.843 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:24:52.843 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 20:24:52.844 1 [error] <0.4734.1>@Undefined:Undefined:Undefined
gen_server <0.4734.1> terminated with reason: connection_down
2022-06-27 20:24:52.844 1 [error] <0.4734.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4734.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:24:52.844 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4731.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5884>,socket_mon =>
#Ref<0.155928093.3974103041.145111>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4734.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:24:52.845 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4734.1>,connection_down}
2022-06-27 20:24:55.325 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:25:02.846 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
```

```
{gateway_validators_req_v1_pb,1}
2022-06-27 20:25:03.010 1 [info] <0.4743.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:25:03.011 1 [info] <0.4743.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.4742.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:25:03.169 1 [error] <0.4742.1>@http2_client:handle_settings:822
gen_server <0.4742.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:25:03.169 1 [error] <0.4742.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4742.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:25:03.171 1 [error] <0.4743.1>@Undefined:Undefined:Undefined
gen_server <0.4743.1> terminated with reason: connection_down
2022-06-27 20:25:03.172 1 [error] <0.4743.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4743.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:25:03.172 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4743.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 20:25:03.172 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:25:03.172 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:25:03.172 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:25:03.174 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4742.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5885>,socket_mon =>
#Ref<0.155928093.3974103041.145480>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4743.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 20:25:03.174 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4743.1>,connection_down}
2022-06-27 20:25:05.472 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:25:06.854 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:25:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:25:06.855 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:25:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:25:06.857 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5675,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:25:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:25:13.174 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:25:13.507 1 [info] <0.4755.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:25:13.510 1 [info] <0.4755.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.4754.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:25:13.834 1 [error] <0.4754.1>@http2_client:handle_settings:822
gen_server <0.4754.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:25:13.836 1 [error] <0.4754.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4754.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:25:13.837 1 [error] <0.4755.1>@Undefined:Undefined:Undefined
gen_server <0.4755.1> terminated with reason: connection_down
2022-06-27 20:25:13.838 1 [error] <0.4755.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4755.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:25:13.841 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4755.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:25:13.842 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:25:13.843 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:25:13.843 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:25:13.847 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4754.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
```



```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {56,
{<<":authority">>,<<"13.237.155.172">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}}], host => "13.237.155.172", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.5886>, socket_mon =>
#Ref<0.155928093.3974103041.145736>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.4755.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file, "http2_client.erl"}, {line, 822}],
{http2_client, handle_packet, 2, [{file, "http2_client.erl"}, {line, 648}]},
{gen_server, try_dispatch, 4, [{file, "gen_server.erl"}, {line, 695}]},
{gen_server, handle_msg, 6, [{file, "gen_server.erl"}, {line, 771}]},
{proc_lib, init_p_do_apply, 3, [{file, "proc_lib.erl"}, {line, 226}]}}]
2022-06-27 20:25:13.848 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT', <0.4755.1>, connection_down} 2022-06-27
20:25:15.622 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:25:23.846 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb, 1}
2022-06-27 20:25:24.124 1 [info] <0.4759.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:25:24.125 1 [info] <0.4759.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>, compression =>
none, connection => #{client => http2_client, host =>
<<"13.125.32.225">>, http_connection => <0.4758.1>, scheme =>
<<"http">>, encoder => gateway_miner_client_pb, headers_sent => false, input =>
gateway_validators_req_v1_pb, input_stream => false, metadata => #{} , name =>
validators, opts => [], output => gateway_resp_v1_pb, output_stream =>
false, package => [], queue => {[], []}, response_pending => false, rpc =>
validators, service => 'helium.gateway', state => idle, stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:25:24.399 1 [error] <0.4758.1>@http2_client:handle_settings:822
gen_server <0.4758.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:25:24.400 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4759.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:25:24.400 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:25:24.401 1 [error] <0.4758.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4758.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:25:24.402 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:25:24.402 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:25:24.402 1 [error] <0.4759.1>@Undefined:Undefined:Undefined
gen_server <0.4759.1> terminated with reason: connection_down
2022-06-27 20:25:24.402 1 [error] <0.4759.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4759.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:25:24.403 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4758.1>,{function_clause,
[{http2_client,handle_settings,
[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5887>,socket_mon =>
#Ref<0.155928093.3974103041.145930>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4759.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 20:25:24.404 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4759.1>,connection_down}
2022-06-27 20:25:25.764 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:25:34.405 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:25:34.682 1 [info] <0.4762.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:25:34.685 1 [info] <0.4762.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.4761.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

miner\_poc\_grpc\_client\_handler

2022-06-27 20:25:34.953 1 [error] <0.4761.1>@http2\_client:handle\_settings:822  
gen\_server <0.4761.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:25:34.954 1 [error] <0.4761.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.4761.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:25:34.955 1 [error] <0.4762.1>@Undefined:Undefined:Undefined  
gen\_server <0.4762.1> terminated with reason: connection\_down

2022-06-27 20:25:34.955 1 [error] <0.4762.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.4762.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:25:34.955 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.4762.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]}],

{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]}],

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}],

{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}],

{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}],

{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]}],

{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]}]

2022-06-27 20:25:34.956 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 20:25:34.956 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 20:25:34.956 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 20:25:34.958 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4761.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5888>,socket_mon =>
#Ref<0.155928093.3974103041.146112>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4762.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:25:34.959 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4762.1>,connection_down}
2022-06-27 20:25:35.928 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:25:36.850 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:25:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:25:36.851 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:25:36 GMT">>,<<"txnb">> => 0}
```

```
2022-06-27 20:25:36.852 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5679,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:25:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:25:44.959 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:25:45.126 1 [info] <0.4765.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:25:45.127 1 [info] <0.4765.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.4764.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:25:45.288 1 [error] <0.4764.1>@http2_client:handle_settings:822
gen_server <0.4764.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:25:45.289 1 [error] <0.4764.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4764.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:25:45.289 1 [error] <0.4765.1>@Undefined:Undefined:Undefined
gen_server <0.4765.1> terminated with reason: connection_down
2022-06-27 20:25:45.289 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4765.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 20:25:45.290 1 [error] <0.4765.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4765.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:25:45.290 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:25:45.290 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:25:45.290 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:25:45.292 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4764.1>,{function_clause,
[{{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5889>,socket_mon =>
#Ref<0.155928093.3973316611.187635>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4765.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:25:45.292 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4765.1>,connection_down}
2022-06-27 20:25:46.071 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:25:55.293 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:25:55.571 1 [info] <0.4775.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:25:55.572 1 [info] <0.4775.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.4774.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:25:55.843 1 [error] <0.4774.1>@http2_client:handle_settings:822
gen_server <0.4774.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:25:55.845 1 [error] <0.4774.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4774.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:25:55.847 1 [error] <0.4775.1>@Undefined:Undefined:Undefined
gen_server <0.4775.1> terminated with reason: connection_down
2022-06-27 20:25:55.847 1 [error] <0.4775.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4775.1> with 0 neighbours exited with reason:
```



```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:25:55.849 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4775.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:25:55.849 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:25:55.851 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:25:55.852 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:25:55.854 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4774.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5890>,socket_mon =>
```

```
#Ref<0.155928093.3974103041.146371>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4775.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}]
2022-06-27 20:25:55.854 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4775.1>,connection_down}
2022-06-27 20:25:56.224 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:26:05.853 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:26:06.183 1 [info] <0.4792.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:26:06.184 1 [info] <0.4792.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.4791.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:26:06.378 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:26:06.508 1 [error] <0.4791.1>@http2_client:handle_settings:822
gen_server <0.4791.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:26:06.509 1 [error] <0.4791.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4791.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:26:06.511 1 [error] <0.4792.1>@Undefined:Undefined:Undefined
gen_server <0.4792.1> terminated with reason: connection_down
2022-06-27 20:26:06.511 1 [error] <0.4792.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4792.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:26:06.511 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4792.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:26:06.512 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:26:06.512 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:26:06.512 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:26:06.514 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4791.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"13.211.55.217">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}], host => "13.211.55.217", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.5891>, socket_mon =>
#Ref<0.155928093.3974103041.146479>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.4792.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}], timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file,"http2_client.erl"}, {line,822}],
{http2_client, handle_packet, 2, [{file,"http2_client.erl"}, {line,648}]},
{gen_server, try_dispatch, 4, [{file,"gen_server.erl"}, {line,695}]},
{gen_server, handle_msg, 6, [{file,"gen_server.erl"}, {line,771}]},
{proc_lib, init_p_do_apply, 3, [{file,"proc_lib.erl"}, {line,226}]}}]
2022-06-27 20:26:06.514 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4792.1>,connection_down} 2022-06-27
20:26:06.852 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:26:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:26:06.852 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:26:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:26:06.853 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5683,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:26:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:26:16.515 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:26:16.528 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:26:16.608 1 [info] <0.4800.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:26:16.610 1 [info] <0.4800.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.4799.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:26:16.693 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4800.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:26:16.693 1 [error] <0.4799.1>@http2_client:handle_settings:822
gen_server <0.4799.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:26:16.694 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:26:16.694 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:26:16.695 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 20:26:16.695 1 [error] <0.4799.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4799.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:26:16.695 1 [error] <0.4800.1>@Undefined:Undefined:Undefined
gen_server <0.4800.1> terminated with reason: connection_down
2022-06-27 20:26:16.695 1 [error] <0.4800.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4800.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:26:16.696 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4799.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5892>,socket_mon =>
#Ref<0.155928093.3974103041.146613>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4800.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 20:26:16.696 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4800.1>,connection_down}
```

```
2022-06-27 20:26:26.668 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:26:26.696 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:26:26.788 1 [info] <0.4807.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:26:26.789 1 [info] <0.4807.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.4806.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:26:27.377 1 [error] <0.4806.1>@http2_client:handle_settings:822
gen_server <0.4806.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:26:27.380 1 [error] <0.4806.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4806.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:26:27.381 1 [error] <0.4807.1>@Undefined:Undefined:Undefined
gen_server <0.4807.1> terminated with reason: connection_down
2022-06-27 20:26:27.382 1 [error] <0.4807.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4807.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:26:27.382 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4807.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
{file,"miner_poc_grpc_client_statem.erl",{line,721}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 20:26:27.383 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:26:27.384 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:26:27.384 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:26:27.388 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4806.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5893>,socket_mon =>
#Ref<0.155928093.3974103041.146701>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4807.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
```



```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 20:26:27.389 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4807.1>,connection_down}
2022-06-27 20:26:36.804 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:26:36.855 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:26:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:26:36.855 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:26:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:26:36.856 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5687,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:26:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:26:37.387 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:26:37.615 1 [info] <0.4810.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:26:37.616 1 [info] <0.4810.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.4809.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:26:37.836 1 [error] <0.4809.1>@http2_client:handle_settings:822
gen_server <0.4809.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:26:37.837 1 [error] <0.4809.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4809.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:26:37.838 1 [error] <0.4810.1>@Undefined:Undefined:Undefined
gen_server <0.4810.1> terminated with reason: connection_down
2022-06-27 20:26:37.838 1 [error] <0.4810.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4810.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:26:37.838 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4810.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:26:37.839 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:26:37.839 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:26:37.839 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:26:37.841 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4809.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5894>,socket_mon =>
#Ref<0.155928093.3974103041.146807>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4810.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:26:37.841 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4810.1>,connection_down}
2022-06-27 20:26:46.945 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:26:47.842 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:26:48.078 1 [info] <0.4813.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:26:48.080 1 [info] <0.4813.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.4812.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:26:48.376 1 [error] <0.4812.1>@http2_client:handle_settings:822
gen_server <0.4812.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:26:48.378 1 [error] <0.4812.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4812.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:26:48.378 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4813.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:26:48.378 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:26:48.378 1 [error] <0.4813.1>@Undefined:Undefined:Undefined
gen_server <0.4813.1> terminated with reason: connection_down
2022-06-27 20:26:48.379 1 [error] <0.4813.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4813.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:26:48.379 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:26:48.379 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 20:26:48.381 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4812.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5895>,socket_mon =>
#Ref<0.155928093.3974103041.146994>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4813.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:26:48.381 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4813.1>,connection_down}
2022-06-27 20:26:57.095 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:26:58.382 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:26:58.661 1 [info] <0.4819.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:26:58.662 1 [info] <0.4819.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.4818.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:26:58.936 1 [error] <0.4818.1>@http2_client:handle_settings:822
gen_server <0.4818.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:26:58.937 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4819.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:26:58.938 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:26:58.939 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:26:58.939 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:26:58.940 1 [error] <0.4818.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4818.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 20:26:58.940 1 [error] <0.4819.1>@Undefined:Undefined:Undefined
gen_server <0.4819.1> terminated with reason: connection_down
2022-06-27 20:26:58.941 1 [error] <0.4819.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4819.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:26:58.943 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4818.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5896>,socket_mon =>
#Ref<0.155928093.3973054468.218269>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4819.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 20:26:58.944 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4819.1>,connection_down}
2022-06-27 20:27:06.857 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:27:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

```
2022-06-27 20:27:06.858 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:27:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:27:06.859 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5690,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:27:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:27:07.235 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:27:08.942 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:27:09.219 1 [info] <0.4839.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:27:09.221 1 [info] <0.4839.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.4838.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:27:09.488 1 [error] <0.4838.1>@http2_client:handle_settings:822
gen_server <0.4838.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:27:09.489 1 [error] <0.4838.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4838.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:27:09.489 1 [error] <0.4839.1>@Undefined:Undefined:Undefined
```



```
gen_server <0.4839.1> terminated with reason: connection_down
2022-06-27 20:27:09.489 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4839.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:27:09.490 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:27:09.490 1 [error] <0.4839.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4839.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:27:09.490 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:27:09.490 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:27:09.491 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4838.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5897>,socket_mon =>
#Ref<0.155928093.3973054468.218373>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4839.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:27:09.492 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4839.1>,connection_down}
2022-06-27 20:27:17.381 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:27:19.492 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:27:20.782 1 [info] <0.4848.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:27:20.783 1 [info] <0.4848.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.4847.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:27:21.056 1 [error] <0.4847.1>@http2_client:handle_settings:822
gen_server <0.4847.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:27:21.057 1 [error] <0.4847.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4847.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:27:21.058 1 [error] <0.4848.1>@Undefined:Undefined:Undefined
gen_server <0.4848.1> terminated with reason: connection_down
2022-06-27 20:27:21.059 1 [error] <0.4848.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4848.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:27:21.059 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4848.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:27:21.059 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:27:21.060 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:27:21.060 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:27:21.062 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4847.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {56,
{<<":authority">>,<<"18.228.115.118">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}}], host => "18.228.115.118", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.5898>, socket_mon =>
#Ref<0.155928093.3974103041.147600>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.4848.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file, "http2_client.erl"}, {line, 822}],
{http2_client, handle_packet, 2, [{file, "http2_client.erl"}, {line, 648}],
{gen_server, try_dispatch, 4, [{file, "gen_server.erl"}, {line, 695}],
{gen_server, handle_msg, 6, [{file, "gen_server.erl"}, {line, 771}],
{proc_lib, init_p_do_apply, 3, [{file, "proc_lib.erl"}, {line, 226}]}}]}
2022-06-27 20:27:21.062 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4848.1>,connection_down} 2022-06-27
20:27:21.688 1 [info] <0.1635.0>@libp2p_group_gossip_server:drop_target:
{619,5} dropping target for peerbook <0.1638.0>
2022-06-27 20:27:27.521 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:27:31.063 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:27:31.339 1 [info] <0.4858.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:27:31.340 1 [info] <0.4858.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.4857.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:27:31.611 1 [error] <0.4857.1>@http2_client:handle_settings:822
```

```
gen_server <0.4857.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:27:31.613 1 [error] <0.4857.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4857.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:27:31.614 1 [error] <0.4858.1>@Undefined:Undefined:Undefined
gen_server <0.4858.1> terminated with reason: connection_down
2022-06-27 20:27:31.615 1 [error] <0.4858.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4858.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:27:31.615 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4858.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:27:31.616 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:27:31.616 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:27:31.616 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:27:31.618 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4857.1>,{function_clause,
```

```
{http2_client,handle_settings,  
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client_settings => #{enable_push => 0,header_table_size =>  
4096,initial_window_size => 65535,low_water_mark =>  
16384,max_concurrent_streams => undefined,max_frame_size =>  
16384},client_window => 65535,continuation_data => undefined,decode_state =>  
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "18.228.158.83",last_stream => 1,owner =>  
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size  
=> 4096,initial_window_size => 65535,low_water_mark =>  
16384,max_concurrent_streams => undefined,max_frame_size =>  
16384},server_window => 65528,socket => #Port<0.5899>,socket_mon =>  
#Ref<0.155928093.3974103041.147799>,state => open,stream_count =>  
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>  
1,owner => <0.4858.1>,server_window => 65528,state =>  
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>  
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>  
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>  
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],  
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],  
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],  
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],  
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]  
2022-06-27 20:27:31.619 1 [warning]  
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.4858.1>,connection_down}  
2022-06-27 20:27:36.281 1 [info] <0.1811.0>@miner_poc_denylist:handle_info:  
{103,29} already have version 2022062401  
2022-06-27 20:27:36.851 1 [info]  
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:27:36 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 20:27:36.852 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:27:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 20:27:36.853 1 [info]  
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=5694,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:27:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:27:36.920 1 [notice]
<0.4877.1>@libp2p_stream_relay:handle_info:{146,5} client init bridge Server to
Client {libp2p_relay_bridge_rs_pb,"/p2p/
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv","/
ip4/5.230.68.168/tcp/44158"}
2022-06-27 20:27:37.553 1 [info] <0.4882.1>@libp2p_stream_proxy:init:{59,5} init
proxy server with {{connection,libp2p_yamux_stream,<0.4881.1>},
[[],<0.1631.0>,blockchain_swarm]}
2022-06-27 20:27:37.562 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112AWGsXhaneQqj3UHTPqgFYzM7EjHmMPF4BaPHVqt2vTwpKH5n5" informed us
of our observed address "/ip4/80.77.186.186/tcp/62274"
2022-06-27 20:27:37.665 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:27:37.689 1 [info]
<0.4882.1>@libp2p_stream_proxy:handle_server_data:{131,5} server got dial back
request {libp2p_proxy_dial_back_pb}
2022-06-27 20:27:41.618 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:27:41.950 1 [info] <0.4887.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:27:41.953 1 [info] <0.4887.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.4886.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:27:42.277 1 [error] <0.4886.1>@http2_client:handle_settings:822
gen_server <0.4886.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 20:27:42.279 1 [error] <0.4886.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.4886.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:27:42.279 1 [error] <0.4887.1>@Undefined:Undefined:Undefined  
gen\_server <0.4887.1> terminated with reason: connection\_down

2022-06-27 20:27:42.281 1 [error] <0.4887.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.4887.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:27:42.281 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.4887.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{"line",247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{"line",418}]},{"grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{"line",278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{"line",721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{"line",467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{"line",221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{"line",1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{"line",226}]]]

2022-06-27 20:27:42.282 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 20:27:42.283 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 20:27:42.283 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 20:27:42.286 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.4886.1>,{function\_clause,  
[{"http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>



```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5904>,socket_mon =>
#Ref<0.155928093.3974103041.148219>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4887.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:27:42.287 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4887.1>,connection_down}
2022-06-27 20:27:47.815 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:27:52.286 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:27:52.378 1 [info] <0.4890.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:27:52.379 1 [info] <0.4890.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.4889.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:27:52.465 1 [error] <0.4889.1>@http2_client:handle_settings:822
```

```
gen_server <0.4889.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:27:52.466 1 [error] <0.4889.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4889.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:27:52.467 1 [error] <0.4890.1>@Undefined:Undefined:Undefined
gen_server <0.4890.1> terminated with reason: connection_down
2022-06-27 20:27:52.467 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4890.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:27:52.467 1 [error] <0.4890.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4890.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:27:52.468 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:27:52.468 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:27:52.468 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:27:52.471 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4889.1>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5905>,socket_mon =>
#Ref<0.155928093.3974103041.148402>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4890.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:27:52.471 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4890.1>,connection_down}
2022-06-27 20:27:57.951 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:28:02.471 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:28:02.744 1 [info] <0.4894.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:28:02.745 1 [info] <0.4894.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.4893.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:28:03.011 1 [error] <0.4893.1>@http2_client:handle_settings:822
gen_server <0.4893.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:28:03.013 1 [error] <0.4893.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4893.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:28:03.015 1 [error] <0.4894.1>@Undefined:Undefined:Undefined
gen_server <0.4894.1> terminated with reason: connection_down
2022-06-27 20:28:03.016 1 [error] <0.4894.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4894.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:28:03.018 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4894.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:28:03.019 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:28:03.019 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:28:03.020 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:28:03.023 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4893.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5906>,socket_mon =>
#Ref<0.155928093.3974103041.148594>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4894.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:28:03.024 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4894.1>,connection_down}
2022-06-27 20:28:06.860 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:28:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:28:06.861 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:28:06 GMT">>,<<"txnb">> => 0}
```

```
2022-06-27 20:28:06.864 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5698,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:28:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:28:08.099 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:28:13.023 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:28:13.256 1 [info] <0.4916.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:28:13.257 1 [info] <0.4916.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.4915.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:28:13.485 1 [error] <0.4915.1>@http2_client:handle_settings:822
gen_server <0.4915.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:28:13.485 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4916.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]]
2022-06-27 20:28:13.485 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:28:13.485 1 [error] <0.4915.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4915.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:28:13.486 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:28:13.486 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:28:13.486 1 [error] <0.4916.1>@Undefined:Undefined:Undefined
gen_server <0.4916.1> terminated with reason: connection_down
2022-06-27 20:28:13.486 1 [error] <0.4916.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4916.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:28:13.488 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4915.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"44.229.159.157">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5907>,socket_mon =>
#Ref<0.155928093.3974103041.148761>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.4916.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 20:28:13.489 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4916.1>,connection_down}
2022-06-27 20:28:18.239 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:28:23.489 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:28:23.722 1 [info] <0.4920.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:28:23.725 1 [info] <0.4920.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.4918.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:28:23.947 1 [error] <0.4918.1>@http2_client:handle_settings:822
gen_server <0.4918.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:28:23.949 1 [error] <0.4918.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4918.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:28:23.949 1 [error] <0.4920.1>@Undefined:Undefined:Undefined
```



```
gen_server <0.4920.1> terminated with reason: connection_down
2022-06-27 20:28:23.949 1 [error] <0.4920.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4920.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:28:23.950 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4920.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:28:23.950 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:28:23.951 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:28:23.951 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:28:23.952 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4918.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5908>,socket_mon =>
#Ref<0.155928093.3974103041.148834>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4920.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:28:23.952 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4920.1>,connection_down} 2022-06-27
20:28:28.388 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:28:33.953 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:28:34.232 1 [info] <0.4927.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:28:34.234 1 [info] <0.4927.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.4926.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:28:34.503 1 [error] <0.4926.1>@http2_client:handle_settings:822
gen_server <0.4926.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:28:34.504 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4927.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
{file,"gen_server.erl"},{line,247}}},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]
2022-06-27 20:28:34.504 1 [error] <0.4926.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4926.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:28:34.505 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:28:34.505 1 [error] <0.4927.1>@Undefined:Undefined:Undefined
gen_server <0.4927.1> terminated with reason: connection_down
2022-06-27 20:28:34.505 1 [error] <0.4927.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4927.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:28:34.505 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:28:34.505 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:28:34.507 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4926.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5909>,socket_mon =>
#Ref<0.155928093.3974103041.148899>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4927.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 20:28:34.507 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4927.1>,connection_down}
2022-06-27 20:28:36.862 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:28:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:28:36.863 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:28:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:28:36.864 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5702,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:28:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:28:38.538 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:28:44.509 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

unary request via new connection to ip "13.125.32.225":

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 20:28:44.782 1 [info] <0.4930.1>@grpc_client_stream_custom:init:
```

```
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 20:28:44.783 1 [info] <0.4930.1>@grpc_client_stream_custom:init:
```

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"13.125.32.225">>,http_connection => <0.4929.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 20:28:45.051 1 [error] <0.4929.1>@http2_client:handle_settings:822
```

```
gen_server <0.4929.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 20:28:45.052 1 [error] <0.4929.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.4929.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 20:28:45.053 1 [error] <0.4930.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.4930.1> terminated with reason: connection_down
```

```
2022-06-27 20:28:45.053 1 [error] <0.4930.1>@Undefined:Undefined:Undefined
```

```
CRASH REPORT Process <0.4930.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 20:28:45.054 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.4930.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}],{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 20:28:45.054 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:28:45.055 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:28:45.055 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:28:45.056 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4929.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5910>,socket_mon =>
#Ref<0.155928093.3973316611.189602>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4930.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}
2022-06-27 20:28:45.056 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4930.1>,connection_down}
```

2022-06-27 20:28:45.969 1 [info] <0.1662.0>@blockchain\_worker:snapshot\_sync:{872,5} snapshot\_sync starting <0.4932.1> #Ref<0.155928093.3974103041.149047>

2022-06-27 20:28:45.975 1 [info] <0.4932.1>@blockchain\_worker:do\_snap\_source\_download:{1286,5} Attempting snapshot download from "https://snapshots.helium.wtf/mainnet/snap-1416241.gz", writing to scratch file "/var/data/snap/snap-1416241.gz.scratch"

2022-06-27 20:28:48.680 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:28:55.058 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.211.55.217": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:28:55.398 1 [info] <0.4935.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 20:28:55.399 1 [info] <0.4935.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"13.211.55.217">>,http\_connection => <0.4934.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[ ]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 20:28:55.735 1 [error] <0.4934.1>@http2\_client:handle\_settings:822 gen\_server <0.4934.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:28:55.736 1 [error] <0.4934.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.4934.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:28:55.737 1 [error] <0.4935.1>@Undefined:Undefined:Undefined gen\_server <0.4935.1> terminated with reason: connection\_down

2022-06-27 20:28:55.740 1 [error] <0.4935.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.4935.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:28:55.740 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4935.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:28:55.740 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:28:55.741 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:28:55.741 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:28:55.743 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4934.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5911>,socket_mon =>
#Ref<0.155928093.3974103041.150321>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```



```
1,owner => <0.4935.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}},
{http2_client,handle_packet,2,{file,"http2_client.erl"},{line,648}},
{gen_server,try_dispatch,4,{file,"gen_server.erl"},{line,695}},
{gen_server,handle_msg,6,{file,"gen_server.erl"},{line,771}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl"},{line,226}}}}}
2022-06-27 20:28:55.744 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4935.1>,connection_down}
2022-06-27 20:28:58.818 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:29:05.743 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:29:05.828 1 [info] <0.4938.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:29:05.829 1 [info] <0.4938.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.4937.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:29:05.910 1 [error] <0.4937.1>@http2_client:handle_settings:822
gen_server <0.4937.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:29:05.912 1 [error] <0.4937.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4937.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:29:05.912 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4938.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:29:05.912 1 [error] <0.4938.1>@Undefined:Undefined:Undefined
gen_server <0.4938.1> terminated with reason: connection_down
2022-06-27 20:29:05.912 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:29:05.913 1 [error] <0.4938.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4938.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:29:05.913 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:29:05.913 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:29:05.915 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4937.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5912>,socket_mon =>
#Ref<0.155928093.3974103041.152720>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4938.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 20:29:05.915 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4938.1>,connection_down} 2022-06-27
20:29:06.856 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:29:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:29:06.856 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:29:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:29:06.858 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5706,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:29:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:29:08.955 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:29:15.606 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 2,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAFT1CBIAL3tAMhjPhtQTDPWPiNLas6PzRVVsCrAyek8ABI/ocvVmGNQZ/
YEa/Fj/w==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> => -354,<<"freq">>
=> 868.5,<<"jver">> => 1,<<"lsnr">> => -17.0,<<"mid">> => 0,<<"modu">> =>
<<"LORA">>,<<"rfch">> => 1,<<"rssi">> => -108,<<"rssi">> => -124,<<"size">>
```

```
=> 52,<<"stat">> => 1,<<"tmst">> => 321674495}} from
12291671073248440251 on 35152
2022-06-27 20:29:15.914 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:29:16.151 1 [info] <0.4957.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:29:16.152 1 [info] <0.4957.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.4956.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:29:16.385 1 [error] <0.4956.1>@http2_client:handle_settings:822
gen_server <0.4956.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:29:16.387 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4957.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:29:16.387 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:29:16.388 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 20:29:16.388 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:29:16.388 1 [error] <0.4956.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.4956.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 20:29:16.388 1 [error] <0.4957.1>@Undefined:Undefined:Undefined gen\_server <0.4957.1> terminated with reason: connection\_down  
2022-06-27 20:29:16.389 1 [error] <0.4957.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.4957.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:29:16.389 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4956.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"13.215.75.202">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "13.215.75.202",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5913>,socket\_mon => #Ref<0.155928093.3974103041.154836>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.4957.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}]}

```
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}]}
```

2022-06-27 20:29:16.390 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4957.1>,connection\_down}

2022-06-27 20:29:19.088 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:29:26.391 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.70.239.5":

```
{gateway_validators_req_v1_pb,1}
```

2022-06-27 20:29:26.622 1 [info] <0.4965.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 20:29:26.623 1 [info] <0.4965.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"54.70.239.5">>,http\_connection => <0.4964.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 20:29:26.846 1 [error] <0.4964.1>@http2\_client:handle\_settings:822 gen\_server <0.4964.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:29:26.847 1 [error] <0.4964.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.4964.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:29:26.849 1 [error] <0.4965.1>@Undefined:Undefined:Undefined gen\_server <0.4965.1> terminated with reason: connection\_down

2022-06-27 20:29:26.849 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.4965.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]},

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 20:29:26.849 1 [error] <0.4965.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4965.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:29:26.850 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:29:26.851 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:29:26.852 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:29:26.858 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4964.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{53,
{<<":authority">>,<<"54.70.239.5">>}}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5914>,socket_mon =>
#Ref<0.155928093.3973578754.84952>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4965.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:29:26.858 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4965.1>,connection_down}
2022-06-27 20:29:29.228 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:29:36.855 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:29:36.859 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:29:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:29:36.860 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> =>
1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:29:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:29:36.862 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5710,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:29:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:29:37.188 1 [info] <0.4974.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:29:37.188 1 [info] <0.4974.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.4972.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```



```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:29:37.517 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4974.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:29:37.518 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:29:37.518 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:29:37.518 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:29:37.519 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4972.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},server_window => 65528,socket => #Port<0.5915>,socket_mon =>
#Ref<0.155928093.3973578754.85818>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4974.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:29:37.520 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4974.1>,connection_down}
2022-06-27 20:29:37.520 1 [error] <0.4972.1>@http2_client:handle_settings:822
gen_server <0.4972.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:29:37.522 1 [error] <0.4972.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4972.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:29:37.523 1 [error] <0.4974.1>@Undefined:Undefined:Undefined
gen_server <0.4974.1> terminated with reason: connection_down
2022-06-27 20:29:37.524 1 [error] <0.4974.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4974.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:29:39.361 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:29:47.521 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:29:47.758 1 [info] <0.4977.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:29:47.760 1 [info] <0.4977.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"13.215.29.4">>,http_connection => <0.4976.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:29:47.991 1 [error] <0.4976.1>@http2_client:handle_settings:822
gen_server <0.4976.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:29:47.993 1 [error] <0.4976.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4976.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:29:47.993 1 [error] <0.4977.1>@Undefined:Undefined:Undefined
gen_server <0.4977.1> terminated with reason: connection_down
2022-06-27 20:29:47.994 1 [error] <0.4977.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4977.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:29:47.994 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4977.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:29:47.994 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:29:47.995 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 20:29:47.995 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:29:47.999 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4976.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{53, {<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "13.215.29.4",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5916>,socket\_mon => #Ref<0.155928093.3973578754.86032>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.4977.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 20:29:48.000 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4977.1>,connection\_down}  
2022-06-27 20:29:49.501 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:29:50.618 1 [info]  
<0.4932.1>@blockchain\_worker:do\_snap\_source\_download:{1316,43} snap written to scratch file "/var/data/snap/snap-1416241.gz.scratch"  
2022-06-27 20:29:50.620 1 [info]

```
<0.4932.1>@blockchain_worker:start_snapshot_sync:{1079,43} Loading snap
from "/var/data/snap/snap-1416241.gz"
2022-06-27 20:29:57.998 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:29:58.236 1 [info] <0.4981.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:29:58.237 1 [info] <0.4981.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.4980.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:29:58.467 1 [error] <0.4980.1>@http2_client:handle_settings:822
gen_server <0.4980.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:29:58.468 1 [error] <0.4980.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4980.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:29:58.469 1 [error] <0.4981.1>@Undefined:Undefined:Undefined
gen_server <0.4981.1> terminated with reason: connection_down
2022-06-27 20:29:58.469 1 [error] <0.4981.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4981.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:29:58.471 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4981.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

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{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:29:58.472 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:29:58.473 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:29:58.473 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:29:58.474 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4980.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5917>,socket_mon =>
#Ref<0.155928093.3974103041.161398>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4981.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 20:29:58.475 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4981.1>,connection_down}
2022-06-27 20:29:59.631 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:30:00.173 1 [info] <0.1636.0>@libp2p_peerbook:notify_peers:
{726,5} gossiping out 2 notify peers
2022-06-27 20:30:06.864 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:30:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:30:06.865 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:30:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:30:06.867 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5714,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:30:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:30:08.481 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:30:08.709 1 [info] <0.4987.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:30:08.710 1 [info] <0.4987.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.4986.1>,>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:30:08.933 1 [error] <0.4986.1>@http2_client:handle_settings:822
```

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gen_server <0.4986.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:30:08.934 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4987.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:30:08.935 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:30:08.935 1 [error] <0.4986.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4986.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:30:08.935 1 [error] <0.4987.1>@Undefined:Undefined:Undefined
gen_server <0.4987.1> terminated with reason: connection_down
2022-06-27 20:30:08.935 1 [error] <0.4987.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4987.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:30:08.936 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:30:08.936 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:30:08.937 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4986.1>,{function_clause,
```



```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5918>,socket_mon =>
#Ref<0.155928093.3974103041.161993>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4987.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:30:08.938 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4987.1>,connection_down}
2022-06-27 20:30:09.772 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:30:18.943 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:30:19.127 1 [info] <0.4990.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:30:19.129 1 [info] <0.4990.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.4989.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:30:19.278 1 [error] <0.4989.1>@http2_client:handle_settings:822
gen_server <0.4989.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:30:19.280 1 [error] <0.4989.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4989.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:30:19.281 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4990.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:30:19.281 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:30:19.281 1 [error] <0.4990.1>@Undefined:Undefined:Undefined
gen_server <0.4990.1> terminated with reason: connection_down
2022-06-27 20:30:19.281 1 [error] <0.4990.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4990.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:30:19.282 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:30:19.282 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:30:19.283 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4989.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[[{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]}],host => "3.137.92.200",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5919>,socket\_mon => #Ref<0.155928093.3974103041.162391>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.4990.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 20:30:19.284 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.4990.1>,connection\_down}  
2022-06-27 20:30:19.929 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:30:29.286 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.209.94.225":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:30:29.573 1 [info] <0.4993.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 20:30:29.574 1 [info] <0.4993.1>@grpc\_client\_stream\_custom:init:

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.4992.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:30:29.844 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4993.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:30:29.844 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:30:29.844 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:30:29.844 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:30:29.845 1 [error] <0.4992.1>@http2_client:handle_settings:822
gen_server <0.4992.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:30:29.845 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4992.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"13.209.94.225">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5920>,socket_mon =>
#Ref<0.155928093.3973578754.87011>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.4993.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:30:29.845 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4993.1>,connection_down}
2022-06-27 20:30:29.846 1 [error] <0.4992.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4992.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:30:29.846 1 [error] <0.4993.1>@Undefined:Undefined:Undefined
gen_server <0.4993.1> terminated with reason: connection_down
2022-06-27 20:30:29.847 1 [error] <0.4993.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4993.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:30:30.070 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:30:36.859 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
```

```
#{"stat":0,"ackr":0,"dwnb":0,"rxfw":0,"rxnb":0,"rxok":0,"temp":0.0,"time":"2022-06-27 20:30:36 GMT","txnb":0} from
12291671073248440251 on 35152
2022-06-27 20:30:36.860 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status {"ackr":0,"dwnb":0,"rxfw":0,"rxnb":0,"rxok":0,"temp":0.0,"time":"2022-06-27 20:30:36
GMT","txnb":0}
2022-06-27 20:30:36.861 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5718,dropped=0,status={"ackr":0,"dwnb":0,"rxfw":0,"rxnb":0,"rxok":0,"temp":0.0,"time":"2022-06-27 20:30:36 GMT","txnb":0},rtt_samples=[],rtt=5000000}
2022-06-27 20:30:39.847 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:30:40.078 1 [info] <0.4996.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:30:40.080 1 [info] <0.4996.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer=><<>>,compression=>
none,connection=>#{client=>http2_client,host=>
<<"54.70.239.5">>,http_connection=><0.4995.1>,scheme=>
<<"http">>},encoder=>gateway_miner_client_pb,headers_sent=>false,input=>
gateway_validators_req_v1_pb,input_stream=>false,metadata=>#{},name=>
validators,opts=>[],output=>gateway_resp_v1_pb,output_stream=>
false,package=>[],queue=>{[],[]},response_pending=>false,rpc=>
validators,service=>'helium.gateway',state=>idle,stream_id=>1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:30:40.201 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:30:40.301 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4996.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

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{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:30:40.301 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:30:40.302 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:30:40.302 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:30:40.305 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4995.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5921>,socket_mon =>
#Ref<0.155928093.3974103041.164529>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4996.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 20:30:40.305 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4996.1>,connection_down}
2022-06-27 20:30:40.307 1 [error] <0.4995.1>@http2_client:handle_settings:822
gen_server <0.4995.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:30:40.308 1 [error] <0.4995.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4995.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:30:40.309 1 [error] <0.4996.1>@Undefined:Undefined:Undefined
gen_server <0.4996.1> terminated with reason: connection_down
2022-06-27 20:30:40.309 1 [error] <0.4996.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4996.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:30:50.312 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:30:50.345 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:30:51.665 1 [info] <0.4999.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:30:51.665 1 [info] <0.4999.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.4998.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:30:51.997 1 [error] <0.4998.1>@http2_client:handle_settings:822
gen_server <0.4998.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```



```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:30:51.998 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.4999.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:30:51.998 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:30:51.999 1 [error] <0.4998.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.4998.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:30:51.999 1 [error] <0.4999.1>@Undefined:Undefined:Undefined
gen_server <0.4999.1> terminated with reason: connection_down
2022-06-27 20:30:51.999 1 [error] <0.4999.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.4999.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:30:52.000 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:30:52.001 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:30:52.002 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4998.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5922>,socket_mon =>
#Ref<0.155928093.3973578754.87746>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.4999.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:30:52.002 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.4999.1>,connection_down}
2022-06-27 20:31:00.485 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:31:02.003 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:31:02.279 1 [info] <0.5007.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:31:02.280 1 [info] <0.5007.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.5006.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 20:31:02.891 1 [error] <0.5006.1>@http2_client:handle_settings:822
gen_server <0.5006.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:31:02.892 1 [error] <0.5006.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5006.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:31:02.893 1 [error] <0.5007.1>@Undefined:Undefined:Undefined
gen_server <0.5007.1> terminated with reason: connection_down
2022-06-27 20:31:02.893 1 [error] <0.5007.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5007.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:31:02.894 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5007.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:31:02.895 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:31:02.895 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:31:02.895 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:31:02.898 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5006.1>,{function_clause,
[ {http2_client,handle_settings,
[ [],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5923>,socket_mon =>
#Ref<0.155928093.3973316611.191202>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5007.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 20:31:02.899 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5007.1>,connection_down}
2022-06-27 20:31:06.866 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:31:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:31:06.867 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:31:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:31:06.868 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=5722,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:31:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:31:10.634 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:31:12.905 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:31:13.066 1 [info] <0.5030.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:31:13.067 1 [info] <0.5030.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.5029.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:31:13.222 1 [error] <0.5029.1>@http2_client:handle_settings:822
gen_server <0.5029.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:31:13.222 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5030.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 20:31:13.222 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:31:13.222 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:31:13.223 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:31:13.223 1 [error] <0.5029.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5029.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:31:13.224 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5029.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5924>,socket_mon =>
#Ref<0.155928093.3973316611.191343>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5030.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}}
2022-06-27 20:31:13.224 1 [error] <0.5030.1>@Undefined:Undefined:Undefined
gen_server <0.5030.1> terminated with reason: connection_down
2022-06-27 20:31:13.224 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5030.1>,connection_down}
2022-06-27 20:31:13.225 1 [error] <0.5030.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5030.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:31:20.794 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:31:23.228 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:31:23.395 1 [info] <0.5034.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:31:23.402 1 [info] <0.5034.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.5033.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:31:23.556 1 [error] <0.5033.1>@http2_client:handle_settings:822
gen_server <0.5033.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:31:23.557 1 [error] <0.5033.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5033.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:31:23.557 1 [error] <0.5034.1>@Undefined:Undefined:Undefined
gen_server <0.5034.1> terminated with reason: connection_down
2022-06-27 20:31:23.559 1 [error] <0.5034.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5034.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:31:23.559 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5034.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:31:23.559 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:31:23.559 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:31:23.559 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:31:23.563 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5033.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5925>,socket_mon =>
```



```
#Ref<0.155928093.3974103041.166545>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5034.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 20:31:23.564 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5034.1>,connection_down}
2022-06-27 20:31:30.931 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:31:33.561 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:31:33.839 1 [info] <0.5037.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:31:33.840 1 [info] <0.5037.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.5036.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:31:34.112 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5037.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl",{line,418}}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:31:34.112 1 [error] <0.5036.1>@http2_client:handle_settings:822
gen_server <0.5036.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:31:34.112 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:31:34.112 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:31:34.113 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:31:34.113 1 [error] <0.5036.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5036.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:31:34.113 1 [error] <0.5037.1>@Undefined:Undefined:Undefined
gen_server <0.5037.1> terminated with reason: connection_down
2022-06-27 20:31:34.114 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5036.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"18.228.158.83">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5926>,socket_mon =>
#Ref<0.155928093.3973578754.89696>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5037.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:31:34.114 1 [error] <0.5037.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5037.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:31:34.115 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5037.1>,connection_down}
2022-06-27 20:31:36.869 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:31:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:31:36.869 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:31:36 GMT">>,<<"txnb">> => 0}
2022-06-27 20:31:36.871 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5726,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:31:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:31:41.081 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:31:44.117 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:31:51.228 1 [info]
```

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:32:01.368 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:32:06.865 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:32:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 20:32:06.866 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:32:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 20:32:06.867 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5730,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:32:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 20:32:11.527 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:32:14.121 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}]],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}]],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}]],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}]],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}]]]  
2022-06-27 20:32:14.121 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:32:14.123 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5039.1>,timeout}  
2022-06-27 20:32:14.123 1 [error] <0.5039.1>@Undefined:Undefined:Undefined

CRASH REPORT Process <0.5039.1> with 0 neighbours exited with reason: timeout in gen\_server:init\_it/6 line 407  
2022-06-27 20:32:21.678 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:32:21.694 1 [info] <0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for peerbook <0.1641.0>  
2022-06-27 20:32:24.124 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.70.239.5":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:32:24.357 1 [info] <0.5068.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 20:32:24.358 1 [info] <0.5068.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"54.70.239.5">>,http\_connection => <0.5067.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 20:32:24.581 1 [error] <0.5067.1>@http2\_client:handle\_settings:822 gen\_server <0.5067.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 20:32:24.582 1 [error] <0.5067.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.5067.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 20:32:24.582 1 [error] <0.5068.1>@Undefined:Undefined:Undefined gen\_server <0.5068.1> terminated with reason: connection\_down  
2022-06-27 20:32:24.582 1 [error] <0.5068.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.5068.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:32:24.583 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.5068.1>,{rcv,10000},infinity]}}, Stack: [{gen\_server,call,3,

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{file,"gen_server.erl"},{line,247}}},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:32:24.584 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:32:24.584 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:32:24.584 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:32:24.587 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5067.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"54.70.239.5">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5928>,socket_mon =>
#Ref<0.155928093.3973578754.90794>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5068.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>]],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:32:24.587 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5068.1>,connection_down}
2022-06-27 20:32:31.815 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:32:34.596 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:32:34.833 1 [info] <0.5072.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:32:34.835 1 [info] <0.5072.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.5071.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:32:35.067 1 [error] <0.5071.1>@http2_client:handle_settings:822
gen_server <0.5071.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:32:35.068 1 [error] <0.5071.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5071.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:32:35.069 1 [error] <0.5072.1>@Undefined:Undefined:Undefined
gen_server <0.5072.1> terminated with reason: connection_down
2022-06-27 20:32:35.069 1 [error] <0.5072.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.5072.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:32:35.070 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.5072.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]  
2022-06-27 20:32:35.070 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 20:32:35.071 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 20:32:35.071 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 20:32:35.072 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5071.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[],},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"54.251.77.229">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "54.251.77.229",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
<=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>



```
16384},server_window => 65528,socket => #Port<0.5929>,socket_mon =>
#Ref<0.155928093.3974103041.170386>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5072.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:32:35.073 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5072.1>,connection_down}
2022-06-27 20:32:35.727 1 [warning] <0.4932.1>@blockchain:add_bin_snapshot:
{1983,13} error adding snapshot: error:{badmatch,{error,{error,"Corruption: block
checksum mismatch: stored = 1975174337, computed = 3807013015 in /var/data/
blockchain.db/015769.sst offset 486887 size 514635"}}},
[{blockchain,add_bin_snapshot,4,[{file,"blockchain.erl"},{line,1981}],
{blockchain_worker,attempt_load_snapshot_from_disk,3,
[{file,"blockchain_worker.erl"},{line,1345}],{blockchain_worker,'-
start_snapshot_sync/1-fun-0-',5,[{file,"blockchain_worker.erl"},{line,1083}]}]
2022-06-27 20:32:35.727 1 [error]
<0.4932.1>@blockchain_worker:start_snapshot_sync:{1092,39} snapshot
download or loading failed because {badmatch,{error,{badmatch,{error,
{error,"Corruption: block checksum mismatch: stored = 1975174337, computed =
3807013015 in /var/data/blockchain.db/015769.sst offset 486887 size
514635"}}}}}: [{blockchain_worker,attempt_load_snapshot_from_disk,3,
[{file,"blockchain_worker.erl"},{line,1345}],{blockchain_worker,'-
start_snapshot_sync/1-fun-0-',5,[{file,"blockchain_worker.erl"},{line,1083}]}]
2022-06-27 20:32:35.728 1 [warning]
<0.1662.0>@blockchain_worker:handle_info:{640,5} Snapshot attempt 0 exited
with: {badmatch,{error,{badmatch,{error,{error,"Corruption: block checksum
mismatch: stored = 1975174337, computed = 3807013015 in /var/data/
blockchain.db/015769.sst offset 486887 size 514635"}}}}}; retrying
2022-06-27 20:32:36.192 1 [info] <0.1662.0>@blockchain_worker:snapshot_sync:
{872,5} snapshot_sync starting <0.5077.1>
#Ref<0.155928093.3973316611.192471>
2022-06-27 20:32:36.869 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:32:36 GMT">>,<<"txnb">> => 0}} from
```

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12291671073248440251 on 35152
2022-06-27 20:32:36.869 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:32:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:32:36.871 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5734,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:32:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:32:41.256 1 [warning]
<0.5077.1>@blockchain_worker:is_file_hash_valid:{1259,13} Computed hash
<<221,15,69,195,255,252,112,160,173,145,251,36,92,142,90,57,247,213,69,134,143,
175,161,2,165,234,230,254,224,45,73,32>> does not match expected hash of
<<"3Q9Fw__8cKcTkskXI5aOffVRYaPr6ECperm_uAtSSA">>
2022-06-27 20:32:41.258 1 [info]
<0.5077.1>@blockchain_worker:do_snap_source_download:{1286,5} Attempting
snapshot download from "https://snapshots.helium.wtf/mainnet/snap-1416241.gz",
writing to scratch file "/var/data/snap/snap-1416241.gz.scratch"
2022-06-27 20:32:41.968 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:32:45.074 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:32:45.241 1 [info] <0.5080.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:32:45.242 1 [info] <0.5080.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.5079.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:32:45.400 1 [error] <0.5079.1>@http2_client:handle_settings:822
gen_server <0.5079.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:32:45.401 1 [error] <0.5079.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5079.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:32:45.402 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5080.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:32:45.402 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:32:45.403 1 [error] <0.5080.1>@Undefined:Undefined:Undefined
gen_server <0.5080.1> terminated with reason: connection_down
2022-06-27 20:32:45.403 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:32:45.403 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:32:45.403 1 [error] <0.5080.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5080.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:32:45.404 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5079.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5931>,socket_mon =>
#Ref<0.155928093.3973316611.198745>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5080.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:32:45.405 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5080.1>,connection_down}
2022-06-27 20:32:52.102 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:32:55.406 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:32:56.706 1 [info] <0.5083.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:32:56.707 1 [info] <0.5083.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.5082.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:32:57.013 1 [error] <0.5082.1>@http2_client:handle_settings:822
gen_server <0.5082.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:32:57.015 1 [error] <0.5082.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5082.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:32:57.015 1 [error] <0.5083.1>@Undefined:Undefined:Undefined
gen_server <0.5083.1> terminated with reason: connection_down
2022-06-27 20:32:57.016 1 [error] <0.5083.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5083.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:32:57.016 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5083.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:32:57.016 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:32:57.017 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:32:57.017 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

2022-06-27 20:32:57.018 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5082.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5932>,socket_mon =>
#Ref<0.155928093.3973316611.199390>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5083.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 20:32:57.019 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5083.1>,connection_down}
```

2022-06-27 20:33:02.231 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 20:33:06.863 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:33:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

2022-06-27 20:33:06.863 1 [info]

```
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
```

```
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:33:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:33:06.865 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5738,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:33:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:33:07.019 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:33:08.371 1 [info] <0.5086.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:33:08.373 1 [info] <0.5086.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.5085.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:33:08.718 1 [error] <0.5085.1>@http2_client:handle_settings:822
gen_server <0.5085.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:33:08.720 1 [error] <0.5085.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5085.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:33:08.722 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5086.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]}],
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:33:08.722 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:33:08.723 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:33:08.723 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:33:08.726 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5085.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5933>,socket_mon =>
#Ref<0.155928093.3973316611.199793>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5086.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```



```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:33:08.726 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5086.1>,connection_down}
2022-06-27 20:33:08.721 1 [error] <0.5086.1>@Undefined:Undefined:Undefined
gen_server <0.5086.1> terminated with reason: connection_down
2022-06-27 20:33:08.731 1 [error] <0.5086.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5086.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:33:12.375 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:33:18.726 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:33:18.820 1 [info] <0.5109.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:33:18.822 1 [info] <0.5109.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.5108.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:33:18.901 1 [error] <0.5108.1>@http2_client:handle_settings:822
gen_server <0.5108.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:33:18.903 1 [error] <0.5108.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5108.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:33:18.906 1 [error] <0.5109.1>@Undefined:Undefined:Undefined
gen_server <0.5109.1> terminated with reason: connection_down
```

```
2022-06-27 20:33:18.909 1 [error] <0.5109.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5109.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:33:18.912 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5109.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:33:18.912 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:33:18.915 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:33:18.916 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:33:18.922 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5108.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"3.72.215.7">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5934>,socket_mon =>
#Ref<0.155928093.3974103041.183150>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5109.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:33:18.923 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5109.1>,connection_down}
2022-06-27 20:33:22.512 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:33:28.919 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:33:29.195 1 [info] <0.5113.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:33:29.196 1 [info] <0.5113.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.5112.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:33:29.466 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5113.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:33:29.466 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:33:29.466 1 [error] <0.5112.1>@http2_client:handle_settings:822
gen_server <0.5112.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:33:29.467 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:33:29.467 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:33:29.468 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5112.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5935>,socket_mon =>
#Ref<0.155928093.3973578754.93027>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5113.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]]}
2022-06-27 20:33:29.469 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5113.1>,connection_down}
2022-06-27 20:33:29.469 1 [error] <0.5112.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5112.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:33:29.472 1 [error] <0.5113.1>@Undefined:Undefined:Undefined
gen_server <0.5113.1> terminated with reason: connection_down
2022-06-27 20:33:29.474 1 [error] <0.5113.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5113.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:33:32.651 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:33:36.871 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:33:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:33:36.872 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:33:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:33:36.873 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5742,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:33:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:33:39.470 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

unary request via new connection to ip "18.230.8.198":

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 20:33:39.759 1 [info] <0.5116.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 20:33:39.760 1 [info] <0.5116.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"18.230.8.198">>,http_connection => <0.5115.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 20:33:40.443 1 [error] <0.5115.1>@http2_client:handle_settings:822
```

```
gen_server <0.5115.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 20:33:40.448 1 [error] <0.5115.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.5115.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 20:33:40.449 1 [error] <0.5116.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.5116.1> terminated with reason: connection_down
```

```
2022-06-27 20:33:40.451 1 [error] <0.5116.1>@Undefined:Undefined:Undefined
```

```
CRASH REPORT Process <0.5116.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 20:33:40.453 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.5116.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}],{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 20:33:40.453 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:33:40.454 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:33:40.454 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:33:40.456 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5115.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"18.230.8.198">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5936>,socket_mon =>
#Ref<0.155928093.3973316611.201611>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5116.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}
2022-06-27 20:33:40.456 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5116.1>,connection_down}
```

2022-06-27 20:33:42.785 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:33:45.431 1 [info] <0.5077.1>@blockchain\_worker:do\_snap\_source\_download:{1316,43} snap written to scratch file "/var/data/snap/snap-1416241.gz.scratch"

2022-06-27 20:33:46.216 1 [info] <0.5077.1>@blockchain\_worker:start\_snapshot\_sync:{1079,43} Loading snap from "/var/data/snap/snap-1416241.gz"

2022-06-27 20:33:50.456 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.230.8.198": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:33:50.736 1 [info] <0.5120.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 20:33:50.737 1 [info] <0.5120.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"18.230.8.198">>,http\_connection => <0.5119.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 20:33:51.009 1 [error] <0.5119.1>@http2\_client:handle\_settings:822 gen\_server <0.5119.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:33:51.010 1 [error] <0.5119.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.5119.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:33:51.012 1 [error] <0.5120.1>@Undefined:Undefined:Undefined gen\_server <0.5120.1> terminated with reason: connection\_down

2022-06-27 20:33:51.012 1 [error] <0.5120.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.5120.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:33:51.013 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down,



```
{gen_server,call,[<0.5120.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:33:51.013 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:33:51.014 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:33:51.014 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:33:51.016 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5119.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"18.230.8.198">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5937>,socket_mon =>
#Ref<0.155928093.3974103041.187799>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5120.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}}
2022-06-27 20:33:51.017 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5120.1>,connection_down}
2022-06-27 20:33:52.918 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:34:01.018 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:34:01.101 1 [info] <0.5124.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:34:01.103 1 [info] <0.5124.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.5123.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:34:01.190 1 [error] <0.5123.1>@http2_client:handle_settings:822
gen_server <0.5123.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:34:01.192 1 [error] <0.5123.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5123.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:34:01.198 1 [error] <0.5124.1>@Undefined:Undefined:Undefined
gen_server <0.5124.1> terminated with reason: connection_down
```

2022-06-27 20:34:01.199 1 [error] <0.5124.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.5124.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:34:01.199 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.5124.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}

2022-06-27 20:34:01.200 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 20:34:01.202 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 20:34:01.203 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 20:34:01.207 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5123.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,  
{<<"content-type">>,<<"application/grpc+proto">>}],{53,  
{<<":authority">>,<<"3.70.55.231">>}],{63,<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "3.70.55.231",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5938>,socket_mon =>
#Ref<0.155928093.3974103041.188231>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5124.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:34:01.209 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5124.1>,connection_down}
2022-06-27 20:34:03.068 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:34:04.448 1 [notice]
<0.5138.1>@libp2p_multistream_server:handle_info:{108,13} Failed to handshake
client "/ip4/192.168.5.233/tcp/50956": closed
2022-06-27 20:34:06.879 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:34:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:34:06.880 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:34:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:34:06.882 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5746,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:34:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:34:07.587 1 [notice]
<0.5149.1>@libp2p_multistream_server:handle_info:{108,13} Failed to handshake
client "/ip4/192.168.5.233/tcp/50982": closed
2022-06-27 20:34:11.212 1 [info]
```

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<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:34:11.493 1 [info] <0.5152.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:34:11.494 1 [info] <0.5152.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2_client,host => <<"18.230.8.198">>,http_connection => <0.5151.1>,scheme => <<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input => gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway_resp_v1_pb,output_stream => false,package => [],queue => {[[],[]]},response_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod: miner_poc_grpc_client_handler
2022-06-27 20:34:11.769 1 [error] <0.5151.1>@http2_client:handle_settings:822 gen_server <0.5151.1> terminated with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:34:11.770 1 [error] <0.5151.1>@http2_client:handle_settings:822 CRASH REPORT Process <0.5151.1> with 0 neighbours crashed with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:34:11.770 1 [error] <0.5152.1>@Undefined:Undefined:Undefined gen_server <0.5152.1> terminated with reason: connection_down
2022-06-27 20:34:11.770 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5152.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

2022-06-27 20:34:11.771 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 20:34:11.771 1 [error] <0.5152.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.5152.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:34:11.772 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 20:34:11.772 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:34:11.774 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5151.1>,{function\_clause, [{http2\_client,handle\_settings, [[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}]}]},host => "18.230.8.198",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5948>,socket\_mon => #Ref<0.155928093.3974103041.188516>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5152.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 20:34:11.774 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst

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in setup state: Type: info, Msg: {'EXIT',<0.5152.1>,connection_down}
2022-06-27 20:34:13.216 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:34:21.775 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:34:22.061 1 [info] <0.5159.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:34:22.063 1 [info] <0.5159.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.5158.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:34:22.323 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5159.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:34:22.324 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:34:22.324 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:34:22.324 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

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validator failed: {error,req_failed}
2022-06-27 20:34:22.325 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5158.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5949>,socket_mon =>
#Ref<0.155928093.3973578754.94718>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5159.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}]}
2022-06-27 20:34:22.326 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5159.1>,connection_down}
2022-06-27 20:34:22.327 1 [error] <0.5158.1>@http2_client:handle_settings:822
gen_server <0.5158.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:34:22.327 1 [error] <0.5158.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5158.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```



```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 20:34:22.328 1 [error] <0.5159.1>@Undefined:Undefined:Undefined
gen_server <0.5159.1> terminated with reason: connection_down
2022-06-27 20:34:22.328 1 [error] <0.5159.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5159.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:34:23.363 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:34:32.329 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:34:32.615 1 [info] <0.5178.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:34:32.620 1 [info] <0.5178.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.5177.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:34:32.878 1 [error] <0.5177.1>@http2_client:handle_settings:822
gen_server <0.5177.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 20:34:32.879 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5178.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
```

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{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:34:32.879 1 [error] <0.5177.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5177.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:34:32.879 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:34:32.880 1 [error] <0.5178.1>@Undefined:Undefined:Undefined
gen_server <0.5178.1> terminated with reason: connection_down
2022-06-27 20:34:32.880 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:34:32.880 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:34:32.880 1 [error] <0.5178.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5178.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:34:32.881 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5177.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5950>,socket_mon =>
#Ref<0.155928093.3974103041.190040>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5178.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 20:34:32.882 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5178.1>,connection_down}
2022-06-27 20:34:33.514 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:34:36.871 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:34:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:34:36.872 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:34:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:34:36.873 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5750,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:34:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:34:42.882 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:34:42.965 1 [info] <0.5181.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:34:42.966 1 [info] <0.5181.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.5180.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:34:43.041 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5181.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:34:43.042 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:34:43.042 1 [error] <0.5180.1>@http2_client:handle_settings:822
gen_server <0.5180.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:34:43.043 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:34:43.043 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:34:43.044 1 [error] <0.5180.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5180.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:34:43.044 1 [error] <0.5181.1>@Undefined:Undefined:Undefined
gen_server <0.5181.1> terminated with reason: connection_down
2022-06-27 20:34:43.044 1 [error] <0.5181.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.5181.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:34:43.045 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5180.1>,{function\_clause,  
[http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,  
{<<":authority">>,<<"3.122.38.248">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "3.122.38.248",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5951>,socket\_mon =>  
#Ref<0.155928093.3973578754.94987>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.5181.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 20:34:43.045 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5181.1>,connection\_down}  
2022-06-27 20:34:43.661 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:34:53.049 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.49.199.40":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:34:53.815 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

2022-06-27 20:35:03.962 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:35:06.871 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:35:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 20:35:06.872 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #{<<"ackr">>  
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>  
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:35:06  
GMT">>,<<"txnb">> => 0}  
2022-06-27 20:35:06.873 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=5754,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:35:06 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 20:35:08.212 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/  
1122B97N99b65u8w1RwSzCzUGf3Exf5h5GyjjxiizGgZQapyRhcJ" informed us of  
our observed address "/ip4/80.77.186.186/tcp/44239"  
2022-06-27 20:35:14.108 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:35:23.052 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,timeout}},  
[{"miner\_poc\_grpc\_client\_statem",send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,719}]},  
{"miner\_poc\_grpc\_client\_statem",find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{"miner\_poc\_grpc\_client\_statem",setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{"gen\_statem",loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{"proc\_lib",init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]]  
2022-06-27 20:35:23.052 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 20:35:23.053 1 [error] <0.5183.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.5183.1> with 0 neighbours exited with reason: timeout

```
in gen_server:init_it/6 line 407
2022-06-27 20:35:23.054 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5183.1>,timeout}
2022-06-27 20:35:24.242 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:35:29.728 1 [warning]
<0.1642.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
11vCcAwu4MmvaWnjGtaobgQdz2QoXekopfdHwGdq7Kjp2xcfE7f": {exit,{normal,
{gen_server,call,[<0.4489.1>,open]}}}
2022-06-27 20:35:33.064 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:35:33.354 1 [info] <0.5234.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:35:33.355 1 [info] <0.5234.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.5233.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:35:33.624 1 [error] <0.5233.1>@http2_client:handle_settings:822
gen_server <0.5233.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:35:33.625 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5234.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:35:33.625 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:35:33.626 1 [error] <0.5233.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5233.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:35:33.626 1 [error] <0.5234.1>@Undefined:Undefined:Undefined
gen_server <0.5234.1> terminated with reason: connection_down
2022-06-27 20:35:33.626 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:35:33.627 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:35:33.628 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5233.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5959>,socket_mon =>
#Ref<0.155928093.3974103041.193573>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5234.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```



```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}}
2022-06-27 20:35:33.629 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5234.1>,connection_down}
2022-06-27 20:35:33.635 1 [error] <0.5234.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5234.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811 2022-06-27
20:35:34.385 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:35:36.881 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:35:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:35:36.881 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:35:36 GMT">>,<<"txnb">> => 0}
2022-06-27 20:35:36.884 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5758,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:35:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:35:43.633 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:35:43.914 1 [info] <0.5237.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:35:43.915 1 [info] <0.5237.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.5236.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:35:44.188 1 [error] <0.5236.1>@http2_client:handle_settings:822
gen_server <0.5236.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:35:44.190 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5237.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:35:44.190 1 [error] <0.5236.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5236.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:35:44.190 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:35:44.190 1 [error] <0.5237.1>@Undefined:Undefined:Undefined
gen_server <0.5237.1> terminated with reason: connection_down
2022-06-27 20:35:44.191 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:35:44.191 1 [error] <0.5237.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5237.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:35:44.191 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:35:44.192 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5236.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "13.125.32.225",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5960>,socket\_mon => #Ref<0.155928093.3973578754.97226>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5237.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 20:35:44.193 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5237.1>,connection\_down}  
2022-06-27 20:35:44.532 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:35:54.194 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.210.14.128":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:35:54.283 1 [info] <0.5240.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 20:35:54.284 1 [info] <0.5240.1>@grpc\_client\_stream\_custom:init:

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.5239.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:35:54.367 1 [error] <0.5239.1>@http2_client:handle_settings:822
gen_server <0.5239.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:35:54.369 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5240.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:35:54.369 1 [error] <0.5239.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5239.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:35:54.369 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:35:54.369 1 [error] <0.5240.1>@Undefined:Undefined:Undefined
gen_server <0.5240.1> terminated with reason: connection_down
2022-06-27 20:35:54.369 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 20:35:54.369 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:35:54.370 1 [error] <0.5240.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.5240.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:35:54.371 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5239.1>,{function\_clause,

{http2\_client,handle\_settings,

[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,

{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,

{<<"content-type">>,<<"application/grpc+proto">>}},{55,

{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/

validators">>}}],host => "52.210.14.128",last\_stream => 1,owner =>

<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size

=> 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},server\_window => 65528,socket => #Port<0.5961>,socket\_mon =>

#Ref<0.155928093.3973316611.203300>,state => open,stream\_count =>

1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>

1,owner => <0.5240.1>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>

gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}],

{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}],

{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}],

{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}],

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}}]}]}

2022-06-27 20:35:54.371 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5240.1>,connection\_down}

2022-06-27 20:35:54.669 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:36:04.371 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send

```
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:36:04.606 1 [info] <0.5243.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:36:04.607 1 [info] <0.5243.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.5242.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:36:04.811 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:36:04.837 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5243.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:36:04.838 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:36:04.838 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:36:04.838 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:36:04.841 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

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in setup state: Type: info, Msg: {'EXIT',<0.5242.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5962>,socket_mon =>
#Ref<0.155928093.3973316611.203407>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5243.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:36:04.841 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5243.1>,connection_down}
2022-06-27 20:36:04.843 1 [error] <0.5242.1>@http2_client:handle_settings:822
gen_server <0.5242.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:36:04.844 1 [error] <0.5242.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5242.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:36:04.845 1 [error] <0.5243.1>@Undefined:Undefined:Undefined
gen_server <0.5243.1> terminated with reason: connection_down
```

2022-06-27 20:36:04.845 1 [error] <0.5243.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.5243.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:36:06.880 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:36:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152

2022-06-27 20:36:06.881 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:36:06 GMT">>,<<"txnb">> => 0}

2022-06-27 20:36:06.882 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=5762,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:36:06 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}

2022-06-27 20:36:07.013 1 [info] <0.5245.1>@libp2p\_transport\_proxy:connect:  
{38,5} init proxy with ["/p2p/  
11UanqfCqanGrRDS64zorBSZ9TWkBZCr5egnehuE8AoG3usyLMj","/p2p/  
112i58n4eyW647vSyGpgwRuxBWB7DQzta77ZaLhPbun6EVjfKWGk"]

2022-06-27 20:36:07.020 1 [error]  
<0.5245.1>@libp2p\_transport\_proxy:connect\_to:{69,13} failed to dial proxy server  
"/p2p/11UanqfCqanGrRDS64zorBSZ9TWkBZCr5egnehuE8AoG3usyLMj"  
not\_found

2022-06-27 20:36:07.023 1 [warning]  
<0.1643.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/  
112i58n4eyW647vSyGpgwRuxBWB7DQzta77ZaLhPbun6EVjfKWGk": [{"/p2p/  
11UanqfCqanGrRDS64zorBSZ9TWkBZCr5egnehuE8AoG3usyLMj/p2p-circuit/p2p/  
112i58n4eyW647vSyGpgwRuxBWB7DQzta77ZaLhPbun6EVjfKWGk"},fail\_dial\_proxy  
}]

2022-06-27 20:36:14.840 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.104.32.11":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:36:14.961 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

2022-06-27 20:36:15.181 1 [info] <0.5252.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary

2022-06-27 20:36:15.181 1 [info] <0.5252.1>@grpc\_client\_stream\_custom:init:



```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.5251.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:36:15.512 1 [error] <0.5251.1>@http2_client:handle_settings:822
gen_server <0.5251.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:36:15.513 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5252.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:36:15.513 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:36:15.514 1 [error] <0.5251.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5251.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:36:15.514 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:36:15.514 1 [error] <0.5252.1>@Undefined:Undefined:Undefined
```

gen\_server <0.5252.1> terminated with reason: connection\_down  
2022-06-27 20:36:15.514 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 20:36:15.515 1 [error] <0.5252.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.5252.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:36:15.516 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5251.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,  
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "3.104.32.11",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5967>,socket\_mon =>  
#Ref<0.155928093.3973316611.203738>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.5252.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}}  
2022-06-27 20:36:15.517 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5252.1>,connection\_down}  
2022-06-27 20:36:25.111 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:36:25.524 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send

unary request via new connection to ip "18.228.115.118":

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 20:36:26.806 1 [info] <0.5255.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 20:36:26.807 1 [info] <0.5255.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"18.228.115.118">>,http_connection => <0.5254.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 20:36:27.086 1 [error] <0.5254.1>@http2_client:handle_settings:822
```

```
gen_server <0.5254.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 20:36:27.088 1 [error] <0.5254.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.5254.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 20:36:27.088 1 [error] <0.5255.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.5255.1> terminated with reason: connection_down
```

```
2022-06-27 20:36:27.088 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.5255.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}],{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 20:36:27.089 1 [error] <0.5255.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.5255.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:36:27.089 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 20:36:27.089 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 20:36:27.089 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 20:36:27.091 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5254.1>,{function\_clause,  
[http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[[42,  
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,  
{<<"content-type">>,<<"application/grpc+proto">>}],{56,  
{<<":authority">>,<<"18.228.115.118">>}],{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "18.228.115.118",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.5968>,socket\_mon =>  
#Ref<0.155928093.3973578754.98693>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.5255.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}}]  
2022-06-27 20:36:27.091 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5255.1>,connection\_down}

2022-06-27 20:36:35.258 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:36:35.583 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/  
112tdsVrSQ6Gugmez8Smpzd4MJujMqHhYZHnVxyhaygAggtCjAgs" informed us of  
our observed address "/ip4/80.77.186.186/tcp/16188"  
2022-06-27 20:36:36.877 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:36:36 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 20:36:36.878 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #{<<"ackr">>  
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>  
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:36:36  
GMT">>,<<"txnb">> => 0}  
2022-06-27 20:36:36.879 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=5766,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:36:36 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 20:36:37.091 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.209.94.225":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:36:37.368 1 [info] <0.5287.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 20:36:37.369 1 [info] <0.5287.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"13.209.94.225">>,http\_connection => <0.5286.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 20:36:37.638 1 [error] <0.5286.1>@http2\_client:handle\_settings:822  
gen\_server <0.5286.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:36:37.639 1 [error] <0.5286.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5286.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:36:37.642 1 [error] <0.5287.1>@Undefined:Undefined:Undefined
gen_server <0.5287.1> terminated with reason: connection_down
2022-06-27 20:36:37.643 1 [error] <0.5287.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5287.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:36:37.644 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5287.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:36:37.645 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:36:37.645 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:36:37.646 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:36:37.647 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5286.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.209.94.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5974>,socket_mon =>
#Ref<0.155928093.3974103041.195812>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5287.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:36:37.647 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5287.1>,connection_down}
2022-06-27 20:36:45.415 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:36:45.981 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11fxDdRWUG2q41HbBEAD64RZtTnguwYohezktCDaKd3tDuGiAie" informed us of
our observed address "/ip4/80.77.186.186/tcp/14874"
2022-06-27 20:36:47.651 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:36:47.888 1 [info] <0.5308.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:36:47.888 1 [info] <0.5308.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.5307.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:36:48.226 1 [error] <0.5307.1>@http2_client:handle_settings:822
gen_server <0.5307.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:36:48.227 1 [error] <0.5307.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5307.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:36:48.229 1 [error] <0.5308.1>@Undefined:Undefined:Undefined
gen_server <0.5308.1> terminated with reason: connection_down
2022-06-27 20:36:48.229 1 [error] <0.5308.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5308.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:36:48.229 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5308.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:36:48.229 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:36:48.230 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```



client error response

2022-06-27 20:36:48.230 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:36:48.232 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5307.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "54.251.77.229",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5980>,socket\_mon => #Ref<0.155928093.3973578754.99235>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5308.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}

2022-06-27 20:36:48.232 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5308.1>,connection\_down}

2022-06-27 20:36:52.237 1 [warning] <0.5077.1>@blockchain:add\_bin\_snapshot: {1983,13} error adding snapshot: error:{badmatch,{error,{error,"Corruption: block checksum mismatch: stored = 1975174337, computed = 3807013015 in /var/data/blockchain.db/015769.sst offset 486887 size 514635"}}}, [{blockchain,add\_bin\_snapshot,4,[{file,"blockchain.erl",{line,1981}}], {blockchain\_worker,attempt\_load\_snapshot\_from\_disk,3, [{file,"blockchain\_worker.erl",{line,1345}}], {blockchain\_worker,'-start\_snapshot\_sync/1-fun-0-',5,[{file,"blockchain\_worker.erl",{line,1083}}]}

```
2022-06-27 20:36:52.237 1 [error]
<0.5077.1>@blockchain_worker:start_snapshot_sync:{1092,39} snapshot
download or loading failed because {badmatch,{error,{badmatch,{error,
{error,"Corruption: block checksum mismatch: stored = 1975174337, computed =
3807013015 in /var/data/blockchain.db/015769.sst offset 486887 size
514635"}}}}}: [{blockchain_worker,attempt_load_snapshot_from_disk,3,
[{{file,"blockchain_worker.erl"},{line,1345}}],{blockchain_worker,'-
start_snapshot_sync/1-fun-0-',5,[{file,"blockchain_worker.erl"},{line,1083}}]}]
2022-06-27 20:36:52.238 1 [warning]
<0.1662.0>@blockchain_worker:handle_info:{640,5} Snapshot attempt 1 exited
with: {badmatch,{error,{badmatch,{error,{error,"Corruption: block checksum
mismatch: stored = 1975174337, computed = 3807013015 in /var/data/
blockchain.db/015769.sst offset 486887 size 514635"}}}}}; retrying 2022-06-27
20:36:52.609 1 [info] <0.1662.0>@blockchain_worker:snapshot_sync:{872,5}
snapshot_sync starting <0.5313.1> #Ref<0.155928093.3973578754.99317>
2022-06-27 20:36:55.562 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:36:58.233 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:36:58.509 1 [info] <0.5315.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:36:58.511 1 [info] <0.5315.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.5314.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:36:58.777 1 [error] <0.5314.1>@http2_client:handle_settings:822
gen_server <0.5314.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:36:58.778 1 [error] <0.5314.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5314.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 20:36:58.778 1 [error] <0.5315.1>@Undefined:Undefined:Undefined
gen_server <0.5315.1> terminated with reason: connection_down
2022-06-27 20:36:58.779 1 [error] <0.5315.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5315.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:36:58.779 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5315.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:36:58.779 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:36:58.779 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:36:58.779 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:36:58.781 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5314.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
```

```
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5982>,socket_mon =>
#Ref<0.155928093.3973578754.99337>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5315.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:36:58.782 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5315.1>,connection_down}
2022-06-27 20:37:03.974 1 [warning]
<0.5313.1>@blockchain_worker:is_file_hash_valid:{1259,13} Computed hash
<<221,15,69,195,255,252,112,160,173,145,251,36,92,142,90,57,247,213,69,134,143,
175,161,2,165,234,230,254,224,45,73,32>> does not match expected hash of
<<"3Q9Fw__8cKctkfskXI5aOffVRYaPr6ECperm_uAtSSA">>
2022-06-27 20:37:03.975 1 [info]
<0.5313.1>@blockchain_worker:do_snap_source_download:{1286,5} Attempting
snapshot download from "https://snapshots.helium.wtf/mainnet/snap-1416241.gz",
writing to scratch file "/var/data/snap/snap-1416241.gz.scratch"
2022-06-27 20:37:05.698 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:37:06.875 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:37:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:37:06.877 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:37:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:37:06.879 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5770,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:37:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:37:08.781 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:37:08.877 1 [info] <0.5319.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:37:08.879 1 [info] <0.5319.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.5318.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:37:08.961 1 [error] <0.5318.1>@http2_client:handle_settings:822
gen_server <0.5318.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:37:08.962 1 [error] <0.5318.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5318.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:37:08.963 1 [error] <0.5319.1>@Undefined:Undefined:Undefined
gen_server <0.5319.1> terminated with reason: connection_down
2022-06-27 20:37:08.963 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5319.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

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{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:37:08.963 1 [error] <0.5319.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5319.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:37:08.963 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:37:08.965 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:37:08.965 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:37:08.967 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5318.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5983>,socket_mon =>
#Ref<0.155928093.3974103041.204645>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5319.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 20:37:08.967 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5319.1>,connection_down}
2022-06-27 20:37:15.835 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:37:18.967 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:37:19.135 1 [info] <0.5325.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:37:19.136 1 [info] <0.5325.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.5324.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:37:19.299 1 [error] <0.5324.1>@http2_client:handle_settings:822
gen_server <0.5324.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:37:19.300 1 [error] <0.5324.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5324.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:37:19.302 1 [error] <0.5325.1>@Undefined:Undefined:Undefined
gen_server <0.5325.1> terminated with reason: connection_down
2022-06-27 20:37:19.302 1 [error] <0.5325.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5325.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:37:19.303 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5325.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:37:19.303 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:37:19.303 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:37:19.303 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:37:19.304 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5324.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5984>,socket_mon =>
#Ref<0.155928093.3973578754.106187>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```



```
1,owner => <0.5325.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 20:37:19.305 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5325.1>,connection_down}
2022-06-27 20:37:21.695 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1642.0>
2022-06-27 20:37:25.970 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:37:29.305 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:37:29.599 1 [info] <0.5333.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:37:29.600 1 [info] <0.5333.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.5332.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:37:29.880 1 [error] <0.5332.1>@http2_client:handle_settings:822
gen_server <0.5332.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:37:29.881 1 [error] <0.5332.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5332.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 20:37:29.882 1 [error] <0.5333.1>@Undefined:Undefined:Undefined
gen_server <0.5333.1> terminated with reason: connection_down
2022-06-27 20:37:29.882 1 [error] <0.5333.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5333.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:37:29.883 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5333.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:37:29.883 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:37:29.885 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:37:29.885 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:37:29.891 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5332.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
```

```
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5985>,socket_mon =>
#Ref<0.155928093.3973578754.106430>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5333.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:37:29.892 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5333.1>,connection_down}
2022-06-27 20:37:36.104 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:37:36.886 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:37:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:37:36.887 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:37:36 GMT">>,<<"txnb">> => 0}
2022-06-27 20:37:36.889 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5774,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:37:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:37:39.887 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
```

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2022-06-27 20:37:39.973 1 [info] <0.5344.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:37:39.974 1 [info] <0.5344.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.5343.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:37:40.055 1 [error] <0.5343.1>@http2_client:handle_settings:822
gen_server <0.5343.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:37:40.056 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5344.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:37:40.057 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:37:40.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:37:40.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:37:40.058 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5343.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5986>,socket_mon =>
#Ref<0.155928093.3974103041.211746>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5344.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:37:40.059 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5344.1>,connection_down}
2022-06-27 20:37:40.059 1 [error] <0.5343.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5343.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:37:40.059 1 [error] <0.5344.1>@Undefined:Undefined:Undefined
gen_server <0.5344.1> terminated with reason: connection_down
2022-06-27 20:37:40.060 1 [error] <0.5344.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5344.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:37:46.248 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833

2022-06-27 20:37:50.059 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.122.38.248":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:37:50.156 1 [info] <0.5360.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 20:37:50.157 1 [info] <0.5360.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"3.122.38.248">>,http\_connection => <0.5359.1>,>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}>,name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 20:37:50.243 1 [error] <0.5359.1>@http2\_client:handle\_settings:822 gen\_server <0.5359.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 20:37:50.244 1 [error] <0.5359.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.5359.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 20:37:50.245 1 [error] <0.5360.1>@Undefined:Undefined:Undefined gen\_server <0.5360.1> terminated with reason: connection\_down

2022-06-27 20:37:50.245 1 [error] <0.5360.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.5360.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:37:50.246 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.5360.1>,{rcv,10000},infinity]}}, Stack: [{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}],{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,

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[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:37:50.247 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:37:50.248 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:37:50.248 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:37:50.250 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5359.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.122.38.248">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5987>,socket_mon =>
#Ref<0.155928093.3974103041.213806>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5360.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]]}
```

2022-06-27 20:37:50.251 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5360.1>,connection\_down}

2022-06-27 20:37:56.391 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:38:00.251 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.209.94.225":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:38:01.540 1 [info] <0.5363.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 20:38:01.541 1 [info] <0.5363.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"13.209.94.225">>,http\_connection => <0.5362.1>,scheme => <<"http">>,encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 20:38:01.821 1 [error] <0.5362.1>@http2\_client:handle\_settings:822 gen\_server <0.5362.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:38:01.823 1 [error] <0.5362.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.5362.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:38:01.823 1 [error] <0.5363.1>@Undefined:Undefined:Undefined gen\_server <0.5363.1> terminated with reason: connection\_down

2022-06-27 20:38:01.824 1 [error] <0.5363.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.5363.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:38:01.825 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.5363.1>,{rcv,10000},infinity]}}, Stack: [{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2,



```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 20:38:01.826 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:38:01.826 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:38:01.827 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:38:01.828 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5362.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5988>,socket_mon =>
#Ref<0.155928093.3974103041.216622>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5363.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:38:01.829 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5363.1>,connection_down}
2022-06-27 20:38:06.445 1 [info]
<0.5313.1>@blockchain_worker:do_snap_source_download:{1316,43} snap written
to scratch file "/var/data/snap/snap-1416241.gz.scratch"
2022-06-27 20:38:06.524 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:38:06.874 1 [info]
<0.5313.1>@blockchain_worker:start_snapshot_sync:{1079,43} Loading snap from
"/var/data/snap/snap-1416241.gz"
2022-06-27 20:38:06.878 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:38:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:38:06.878 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:38:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:38:06.880 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5778,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:38:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:38:11.831 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:38:12.165 1 [info] <0.5367.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:38:12.167 1 [info] <0.5367.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

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<<"13.237.155.172">>,http_connection => <0.5366.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:38:12.493 1 [error] <0.5366.1>@http2_client:handle_settings:822
gen_server <0.5366.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:38:12.494 1 [error] <0.5366.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5366.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:38:12.494 1 [error] <0.5367.1>@Undefined:Undefined:Undefined
gen_server <0.5367.1> terminated with reason: connection_down
2022-06-27 20:38:12.495 1 [error] <0.5367.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5367.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:38:12.495 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5367.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:38:12.496 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:38:12.496 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 20:38:12.496 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:38:12.498 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5366.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{56, {<<":authority">>,<<"13.237.155.172">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "13.237.155.172",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5989>,socket\_mon => #Ref<0.155928093.3974103041.218022>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5367.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}

2022-06-27 20:38:12.498 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5367.1>,connection\_down}  
2022-06-27 20:38:16.663 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:38:22.503 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.38.70.101":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:38:26.824 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:38:34.214 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"rxpk">> => [#<<"chan">> => 0,<<"codr">> => <<"4/5">>,<<"data">> => <<"QDDaAAHN6FuaABJ6AIHxRfbB697H13GPtSObb0wNELrXSmXQzaFyztmvzvkoWmUDfBDKcw==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> => -738,<<"freq">> => 868.1,<<"jver">> => 1,<<"lsnr">> => -13.5,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">> => 1,<<"rssi">> => -109,<<"rssi">> => -122,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 880281471]}} from 12291671073248440251 on 35152  
2022-06-27 20:38:36.879 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:38:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 20:38:36.879 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:38:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 20:38:36.880 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5781,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:38:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 20:38:36.972 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:38:47.131 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:38:52.510 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}],  
{miner\_poc\_grpc\_client\_statem,setup,3,

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{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]]},
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:38:52.510 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:38:52.512 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5371.1>,timeout}
2022-06-27 20:38:52.512 1 [error] <0.5371.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5371.1> with 0 neighbours exited with reason: timeout
in gen_server:init_it/6 line 407
2022-06-27 20:38:57.274 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:39:02.515 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:39:02.793 1 [info] <0.5410.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:39:02.795 1 [info] <0.5410.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.5409.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:39:03.067 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5410.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[[{file,"gen_server.erl"},{line,247}]]},
{grpc_client_stream_custom,process_response,2,
[[{file,"grpc_client_stream_custom.erl"},{line,418}]],{grpc_client_custom,unary,6,
[[{file,"grpc_client_custom.erl"},{line,278}]]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]]},
{miner_poc_grpc_client_statem,find_validator,0,
[[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]]},
{miner_poc_grpc_client_statem,setup,3,
[[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]]},
```

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{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 20:39:03.068 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:39:03.069 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:39:03.069 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:39:03.071 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5409.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"18.228.158.83">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5992>,socket_mon =>
#Ref<0.155928093.3974103041.221301>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5410.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}
2022-06-27 20:39:03.071 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5410.1>,connection_down}
```

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2022-06-27 20:39:03.073 1 [error] <0.5409.1>@http2_client:handle_settings:822
gen_server <0.5409.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:39:03.076 1 [error] <0.5409.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5409.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:39:03.077 1 [error] <0.5410.1>@Undefined:Undefined:Undefined
gen_server <0.5410.1> terminated with reason: connection_down
2022-06-27 20:39:03.077 1 [error] <0.5410.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5410.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:39:06.884 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:39:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:39:06.884 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:39:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:39:06.885 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5785,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:39:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:39:07.419 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:39:13.078 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:39:13.355 1 [info] <0.5413.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```



```
2022-06-27 20:39:13.356 1 [info] <0.5413.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.5412.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:39:13.630 1 [error] <0.5412.1>@http2_client:handle_settings:822
gen_server <0.5412.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:39:13.631 1 [error] <0.5412.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5412.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:39:13.634 1 [error] <0.5413.1>@Undefined:Undefined:Undefined
gen_server <0.5413.1> terminated with reason: connection_down
2022-06-27 20:39:13.635 1 [error] <0.5413.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5413.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:39:13.636 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5413.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:39:13.637 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 20:39:13.638 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 20:39:13.638 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:39:13.640 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5412.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {54, {<<":authority">>,<<"3.39.165.144">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.39.165.144",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5993>,socket\_mon => #Ref<0.155928093.3973578754.109609>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5413.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 20:39:13.641 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5413.1>,connection\_down}

2022-06-27 20:39:17.571 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:39:23.641 1 [info]

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<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:39:23.916 1 [info] <0.5417.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:39:23.917 1 [info] <0.5417.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2_client,host => <<"18.230.8.198">>,http_connection => <0.5416.1>,scheme => <<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input => gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway_resp_v1_pb,output_stream => false,package => [],queue => {[[],[]]},response_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod: miner_poc_grpc_client_handler
2022-06-27 20:39:24.185 1 [error] <0.5416.1>@http2_client:handle_settings:822 gen_server <0.5416.1> terminated with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:39:24.186 1 [error] <0.5416.1>@http2_client:handle_settings:822 CRASH REPORT Process <0.5416.1> with 0 neighbours crashed with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:39:24.186 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down, {gen_server,call,[<0.5417.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3, [{file,"gen_server.erl"},{line,247}]}, {grpc_client_stream_custom,process_response,2, [{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6, [{file,"grpc_client_custom.erl"},{line,278}]}, {miner_poc_grpc_client_statem,send_grpc_unary_req,4, [{file,"miner_poc_grpc_client_statem.erl"},{line,721}]}, {miner_poc_grpc_client_statem,find_validator,0, [{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}, {miner_poc_grpc_client_statem,setup,3, [{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}, {gen_statem,loop_state_callback,11, [{file,"gen_statem.erl"},{line,1203}]}, {proc_lib,init_p_do_apply,3, [{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:39:24.186 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 20:39:24.187 1 [error] <0.5417.1>@Undefined:Undefined:Undefined gen\_server <0.5417.1> terminated with reason: connection\_down

2022-06-27 20:39:24.187 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 20:39:24.187 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:39:24.187 1 [error] <0.5417.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.5417.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:39:24.188 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5416.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]}},host => "18.230.8.198",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5994>,socket\_mon => #Ref<0.155928093.3973578754.109808>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5417.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 20:39:24.188 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst

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in setup state: Type: info, Msg: {'EXIT',<0.5417.1>,connection_down}
2022-06-27 20:39:27.718 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:39:34.190 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:39:34.429 1 [info] <0.5425.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:39:34.430 1 [info] <0.5425.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.5424.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:39:34.661 1 [error] <0.5424.1>@http2_client:handle_settings:822
gen_server <0.5424.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:39:34.663 1 [error] <0.5424.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5424.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:39:34.664 1 [error] <0.5425.1>@Undefined:Undefined:Undefined
gen_server <0.5425.1> terminated with reason: connection_down
2022-06-27 20:39:34.665 1 [error] <0.5425.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5425.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:39:34.665 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5425.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

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{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:39:34.665 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:39:34.666 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:39:34.666 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:39:34.668 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5424.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5995>,socket_mon =>
#Ref<0.155928093.3973578754.110185>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5425.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:39:34.669 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5425.1>,connection_down}
2022-06-27 20:39:36.879 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:39:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:39:36.880 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:39:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:39:36.881 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5789,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:39:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:39:37.861 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:39:44.669 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:39:44.749 1 [info] <0.5428.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:39:44.750 1 [info] <0.5428.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.5427.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:39:44.824 1 [error] <0.5427.1>@http2_client:handle_settings:822
```

```
gen_server <0.5427.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:39:44.825 1 [error] <0.5427.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5427.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:39:44.826 1 [error] <0.5428.1>@Undefined:Undefined:Undefined
gen_server <0.5428.1> terminated with reason: connection_down
2022-06-27 20:39:44.827 1 [error] <0.5428.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5428.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:39:44.828 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5428.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:39:44.828 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:39:44.829 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:39:44.829 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:39:44.830 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5427.1>,{function_clause,
```



```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5996>,socket_mon =>
#Ref<0.155928093.3974103041.223717>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5428.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:39:44.831 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5428.1>,connection_down}
2022-06-27 20:39:48.022 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:39:54.832 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:39:55.105 1 [info] <0.5449.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:39:55.106 1 [info] <0.5449.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.5448.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:39:55.372 1 [error] <0.5448.1>@http2_client:handle_settings:822
gen_server <0.5448.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:39:55.373 1 [error] <0.5448.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5448.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:39:55.374 1 [error] <0.5449.1>@Undefined:Undefined:Undefined
gen_server <0.5449.1> terminated with reason: connection_down
2022-06-27 20:39:55.374 1 [error] <0.5449.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5449.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:39:55.375 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5449.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:39:55.375 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:39:55.376 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:39:55.376 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:39:55.377 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5448.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"18.228.158.83">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "18.228.158.83",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.5997>,socket\_mon => #Ref<0.155928093.3974103041.224223>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5449.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 20:39:55.378 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5449.1>,connection\_down}  
2022-06-27 20:39:58.161 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:40:03.356 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"rxpk">> => [#{<<"chan">> => 6,<<"codr">> => <<"4/5">>,<<"data">> => <<"QDDaAAEI+WrWAEyaAF/nFYdJCKmZQ/potf4MQL3EJsUptJ89NfKspBDWvqJPSOh05tfZ0Q==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> => -389,<<"freq">> => 867.7,<<"jver">> => 1,<<"lsnr">> => 2.5,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">> =>

```
0,<<"rssi">> => -104,<<"rssi">> => -105,<<"size">> => 52,<<"stat">> =>
1,<<"tmst">> => 969427479}}] from 12291671073248440251 on 35152
2022-06-27 20:40:05.379 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:40:05.654 1 [info] <0.5455.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:40:05.655 1 [info] <0.5455.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.5454.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:40:05.923 1 [error] <0.5454.1>@http2_client:handle_settings:822
gen_server <0.5454.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:40:05.924 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5455.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:40:05.924 1 [error] <0.5454.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5454.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

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4096,initial_window_size => ...,...,...) line 822
2022-06-27 20:40:05.924 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:40:05.924 1 [error] <0.5455.1>@Undefined:Undefined:Undefined
gen_server <0.5455.1> terminated with reason: connection_down
2022-06-27 20:40:05.925 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:40:05.925 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:40:05.925 1 [error] <0.5455.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5455.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:40:05.926 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5454.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.5998>,socket_mon =>
#Ref<0.155928093.3974103041.224736>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5455.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 20:40:05.926 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5455.1>,connection_down}
2022-06-27 20:40:06.887 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:40:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:40:06.887 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> =>
1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:40:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:40:06.889 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5793,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:40:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:40:08.335 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:40:15.932 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:40:18.485 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:40:28.621 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:40:36.881 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:40:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:40:36.881 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 20:40:36 GMT">>,<<"txnb">> => 0}
2022-06-27 20:40:36.882 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5797,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:40:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:40:38.764 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:40:45.941 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:40:45.941 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:40:45.942 1 [error] <0.5457.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5457.1> with 0 neighbours exited with reason: timeout
in gen_server:init_it/6 line 407
2022-06-27 20:40:45.942 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5457.1>,timeout}
2022-06-27 20:40:48.911 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:40:53.063 1 [warning] <0.5313.1>@blockchain:add_bin_snapshot:
{1983,13} error adding snapshot: error:{badmatch,{error,{error,"Corruption: block
checksum mismatch: stored = 1975174337, computed = 3807013015 in /var/data/
blockchain.db/015769.sst offset 486887 size 514635"}}},
[{blockchain,add_bin_snapshot,4,[{file,"blockchain.erl"},{line,1981}]],
{blockchain_worker,attempt_load_snapshot_from_disk,3,
[{file,"blockchain_worker.erl"},{line,1345}]],{blockchain_worker,'-
start_snapshot_sync/1-fun-0-',5,[{file,"blockchain_worker.erl"},{line,1083}]]}
2022-06-27 20:40:53.064 1 [error]
<0.5313.1>@blockchain_worker:start_snapshot_sync:{1092,39} snapshot
```

```
download or loading failed because {badmatch,{error,{badmatch,{error,
{error,"Corruption: block checksum mismatch: stored = 1975174337, computed =
3807013015 in /var/data/blockchain.db/015769.sst offset 486887 size
514635"}}}}}: [{blockchain_worker,attempt_load_snapshot_from_disk,3,
[{file,"blockchain_worker.erl"},{line,1345}]],{blockchain_worker,'-
start_snapshot_sync/1-fun-0-',5,[{file,"blockchain_worker.erl"},{line,1083}]]}
2022-06-27 20:40:53.065 1 [warning]
<0.1662.0>@blockchain_worker:handle_info:{640,5} Snapshot attempt 2 exited
with: {badmatch,{error,{badmatch,{error,{error,"Corruption: block checksum
mismatch: stored = 1975174337, computed = 3807013015 in /var/data/
blockchain.db/015769.sst offset 486887 size 514635"}}}}}; retrying 2022-06-27
20:40:53.480 1 [info] <0.1662.0>@blockchain_worker:snapshot_sync:{872,5}
snapshot_sync starting <0.5468.1> #Ref<0.155928093.3973578754.112854>
2022-06-27 20:40:55.944 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:40:56.182 1 [info] <0.5472.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:40:56.184 1 [info] <0.5472.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.5471.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:40:56.414 1 [error] <0.5471.1>@http2_client:handle_settings:822
gen_server <0.5471.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:40:56.416 1 [error] <0.5471.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5471.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:40:56.416 1 [error] <0.5472.1>@Undefined:Undefined:Undefined
gen_server <0.5472.1> terminated with reason: connection_down
2022-06-27 20:40:56.416 1 [error] <0.5472.1>@Undefined:Undefined:Undefined
```



CRASH REPORT Process <0.5472.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:40:56.416 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.5472.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 20:40:56.416 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 20:40:56.417 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 20:40:56.417 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 20:40:56.419 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5471.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[],encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{56,  
{<<":authority">>,<<"52.220.227.216">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "52.220.227.216",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
<=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

```
16384},server_window => 65528,socket => #Port<0.6001>,socket_mon =>
#Ref<0.155928093.3974103041.227023>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5472.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:40:56.420 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5472.1>,connection_down} 2022-06-27
20:40:59.048 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:41:01.614 1 [warning]
<0.5468.1>@blockchain_worker:is_file_hash_valid:{1259,13} Computed hash
<<221,15,69,195,255,252,112,160,173,145,251,36,92,142,90,57,247,213,69,134,143,
175,161,2,165,234,230,254,224,45,73,32>> does not match expected hash of
<<"3Q9Fw__8cKCtkfskXI5aOffVRYaPr6ECperm_uAtSSA">>
2022-06-27 20:41:01.615 1 [info]
<0.5468.1>@blockchain_worker:do_snap_source_download:{1286,5} Attempting
snapshot download from "https://snapshots.helium.wtf/mainnet/snap-1416241.gz",
writing to scratch file "/var/data/snap/snap-1416241.gz.scratch"
2022-06-27 20:41:06.420 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:41:06.515 1 [info] <0.5492.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:41:06.516 1 [info] <0.5492.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.5491.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:41:06.603 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.5492.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:41:06.603 1 [error] <0.5491.1>@http2_client:handle_settings:822
gen_server <0.5491.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:41:06.603 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:41:06.604 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:41:06.604 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:41:06.605 1 [error] <0.5491.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5491.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:41:06.606 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5491.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {54,
{<<":authority">>,<<"52.30.111.82">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6002>,socket_mon =>
#Ref<0.155928093.3974103041.241796>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5492.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 20:41:06.606 1 [error] <0.5492.1>@Undefined:Undefined:Undefined
gen_server <0.5492.1> terminated with reason: connection_down
2022-06-27 20:41:06.606 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5492.1>,connection_down} 2022-06-27
20:41:06.606 1 [error] <0.5492.1>@Undefined:Undefined:Undefined CRASH
REPORT Process <0.5492.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:41:06.891 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:41:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:41:06.892 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:41:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:41:06.893 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5801,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:41:06 GMT">>,<<"txnb">> =>
```

```
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:41:09.182 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:41:16.607 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:41:16.852 1 [info] <0.5495.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:41:16.854 1 [info] <0.5495.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.5494.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:41:17.100 1 [error] <0.5494.1>@http2_client:handle_settings:822
gen_server <0.5494.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:41:17.103 1 [error] <0.5494.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5494.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:41:17.103 1 [error] <0.5495.1>@Undefined:Undefined:Undefined
gen_server <0.5495.1> terminated with reason: connection_down
2022-06-27 20:41:17.104 1 [error] <0.5495.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5495.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:41:17.104 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5495.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]}],
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]
2022-06-27 20:41:17.104 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:41:17.105 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:41:17.105 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:41:17.107 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5494.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.215.75.202">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6003>,socket_mon =>
#Ref<0.155928093.3974103041.244361>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5495.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:41:17.108 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5495.1>,connection_down}
2022-06-27 20:41:19.318 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:41:27.108 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:41:27.199 1 [info] <0.5499.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:41:27.200 1 [info] <0.5499.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.5498.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:41:27.284 1 [error] <0.5498.1>@http2_client:handle_settings:822
gen_server <0.5498.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:41:27.284 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5499.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:41:27.285 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:41:27.285 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:41:27.285 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:41:27.285 1 [error] <0.5498.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5498.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:41:27.286 1 [error] <0.5499.1>@Undefined:Undefined:Undefined
gen_server <0.5499.1> terminated with reason: connection_down
2022-06-27 20:41:27.286 1 [error] <0.5499.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5499.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:41:27.287 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5498.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.210.14.128">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6004>,socket_mon =>
#Ref<0.155928093.3973578754.113215>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5499.1>,server_window => 65528,state =>
```



```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 20:41:27.288 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5499.1>,connection_down} 2022-06-27
20:41:29.452 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:41:36.886 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:41:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:41:36.887 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:41:36 GMT">>,<<"txnb">> => 0}
2022-06-27 20:41:36.889 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5805,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:41:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:41:37.287 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:41:37.539 1 [info] <0.5503.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:41:37.541 1 [info] <0.5503.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.5502.1>,>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:41:37.775 1 [error] <0.5502.1>@http2_client:handle_settings:822
gen_server <0.5502.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:41:37.778 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5503.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:41:37.778 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:41:37.779 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:41:37.779 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:41:37.780 1 [error] <0.5502.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5502.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:41:37.780 1 [error] <0.5503.1>@Undefined:Undefined:Undefined
gen_server <0.5503.1> terminated with reason: connection_down
2022-06-27 20:41:37.781 1 [error] <0.5503.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5503.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 20:41:37.782 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5502.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6005>,socket_mon =>
#Ref<0.155928093.3974103041.248339>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5503.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}]}
2022-06-27 20:41:37.783 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5503.1>,connection_down}
2022-06-27 20:41:39.588 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:41:47.782 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:41:48.012 1 [info] <0.5510.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:41:48.014 1 [info] <0.5510.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"44.229.159.157">>,http_connection => <0.5509.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:41:48.241 1 [error] <0.5509.1>@http2_client:handle_settings:822
gen_server <0.5509.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:41:48.242 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5510.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:41:48.242 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:41:48.243 1 [error] <0.5509.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5509.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:41:48.243 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:41:48.243 1 [error] <0.5510.1>@Undefined:Undefined:Undefined
gen_server <0.5510.1> terminated with reason: connection_down
2022-06-27 20:41:48.244 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:41:48.244 1 [error] <0.5510.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.5510.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:41:48.245 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5509.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{56, {<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "44.229.159.157",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6006>,socket\_mon => #Ref<0.155928093.3974103041.250620>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5510.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}

2022-06-27 20:41:48.245 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5510.1>,connection\_down}

2022-06-27 20:41:49.721 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:41:58.246 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.211.55.217": {gateway\_validators\_req\_v1\_pb,1}

```
2022-06-27 20:41:58.592 1 [info] <0.5515.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:41:58.595 1 [info] <0.5515.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.5514.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:41:58.932 1 [error] <0.5514.1>@http2_client:handle_settings:822
gen_server <0.5514.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:41:58.934 1 [error] <0.5514.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5514.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:41:58.934 1 [error] <0.5515.1>@Undefined:Undefined:Undefined
gen_server <0.5515.1> terminated with reason: connection_down
2022-06-27 20:41:58.935 1 [error] <0.5515.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5515.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:41:58.935 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5515.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

2022-06-27 20:41:58.936 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 20:41:58.938 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 20:41:58.939 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:41:58.941 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5514.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"13.211.55.217">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "13.211.55.217",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6007>,socket\_mon => #Ref<0.155928093.3973578754.114037>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5515.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}}

2022-06-27 20:41:58.942 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5515.1>,connection\_down}

2022-06-27 20:41:59.851 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from

12291671073248440251 on 56833  
2022-06-27 20:42:04.369 1 [info]  
<0.5468.1>@blockchain\_worker:do\_snap\_source\_download:{1316,43} snap  
written to scratch file "/var/data/snap/snap-1416241.gz.scratch"  
2022-06-27 20:42:05.014 1 [info]  
<0.5468.1>@blockchain\_worker:start\_snapshot\_sync:{1079,43} Loading snap  
from "/var/data/snap/snap-1416241.gz"  
2022-06-27 20:42:06.888 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:42:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 20:42:06.889 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #<<"ackr">>  
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>  
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:42:06  
GMT">>,<<"txnb">> => 0}  
2022-06-27 20:42:06.891 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=5809,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:42:06 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 20:42:08.941 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.49.199.40":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:42:09.985 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:42:20.131 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:42:21.696 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for  
peerbook <0.1643.0>  
2022-06-27 20:42:30.285 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:42:36.395 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"rxpk">> => [#<<"chan">> => 0,<<"codr">> => <<"4/5">>,<<"data">> =>



```
<<"QDDaAAFYW6RQAKJXALbHcbrSMcfLEo3t3iSP0okWl1buaAkzACkrdLsMvMCV
uHB6MgAxDQ==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
199,<<"freq">> => 868.1,<<"jver">> => 1,<<"lsnr">> => -1.2,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 1,<<"rssi">> => -105,<<"rssi">>
=> -108,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 1122461469}} from
12291671073248440251 on 35152
2022-06-27 20:42:36.893 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:42:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:42:36.894 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> =>
1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:42:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:42:36.895 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5813,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:42:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:42:38.945 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}}]
2022-06-27 20:42:38.945 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:42:38.947 1 [error] <0.5536.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5536.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 20:42:38.948 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5536.1>,timeout}
```

```
2022-06-27 20:42:40.441 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:42:48.954 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:42:49.242 1 [info] <0.5547.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:42:49.243 1 [info] <0.5547.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.5546.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:42:49.512 1 [error] <0.5546.1>@http2_client:handle_settings:822
gen_server <0.5546.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:42:49.512 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5547.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:42:49.512 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 20:42:49.513 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 20:42:49.513 1 [error] <0.5546.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.5546.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 20:42:49.513 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:42:49.514 1 [error] <0.5547.1>@Undefined:Undefined:Undefined  
gen\_server <0.5547.1> terminated with reason: connection\_down

2022-06-27 20:42:49.514 1 [error] <0.5547.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.5547.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:42:49.515 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5546.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{56, {<<":authority">>,<<"18.228.115.118">>}}},{63,<<":path">>,<<"/helium.gateway/validators">>}}}],host => "18.228.115.118",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6009>,socket\_mon => #Ref<0.155928093.3974103041.257644>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5547.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 20:42:49.515 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5547.1>,connection_down}
2022-06-27 20:42:50.596 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:42:59.516 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:42:59.864 1 [info] <0.5550.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:42:59.869 1 [info] <0.5550.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.5549.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:43:00.191 1 [error] <0.5549.1>@http2_client:handle_settings:822
gen_server <0.5549.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:43:00.193 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5550.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 20:43:00.193 1 [error] <0.5549.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5549.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:43:00.194 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:43:00.194 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:43:00.194 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:43:00.195 1 [error] <0.5550.1>@Undefined:Undefined:Undefined
gen_server <0.5550.1> terminated with reason: connection_down
2022-06-27 20:43:00.195 1 [error] <0.5550.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5550.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:43:00.196 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5549.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6010>,socket_mon =>
#Ref<0.155928093.3974103041.258586>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5550.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 20:43:00.196 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5550.1>,connection_down} 2022-06-27
20:43:00.738 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:43:06.887 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:43:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:43:06.887 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:43:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:43:06.889 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5817,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:43:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:43:10.197 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:43:10.364 1 [info] <0.5560.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:43:10.365 1 [info] <0.5560.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.5559.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:43:10.525 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5560.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:43:10.525 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:43:10.525 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:43:10.526 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:43:10.526 1 [error] <0.5559.1>@http2_client:handle_settings:822
gen_server <0.5559.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:43:10.526 1 [error] <0.5559.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5559.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:43:10.526 1 [error] <0.5560.1>@Undefined:Undefined:Undefined
gen_server <0.5560.1> terminated with reason: connection_down
2022-06-27 20:43:10.527 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5559.1>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6011>,socket_mon =>
#Ref<0.155928093.3973578754.115224>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5560.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 20:43:10.527 1 [error] <0.5560.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5560.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:43:10.527 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5560.1>,connection_down} 2022-06-27
20:43:10.878 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:43:20.527 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:43:20.762 1 [info] <0.5571.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:43:20.763 1 [info] <0.5571.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.5570.1>,scheme =>
```



```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:43:20.994 1 [error] <0.5570.1>@http2_client:handle_settings:822
gen_server <0.5570.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:43:20.995 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5571.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:43:20.995 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:43:20.995 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:43:20.995 1 [error] <0.5570.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5570.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:43:20.995 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:43:20.996 1 [error] <0.5571.1>@Undefined:Undefined:Undefined
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gen\_server <0.5571.1> terminated with reason: connection\_down  
2022-06-27 20:43:20.996 1 [error] <0.5571.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.5571.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:43:20.996 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5570.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,  
{<<":authority">>,<<"35.82.239.134">>}}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "35.82.239.134",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6012>,socket\_mon =>  
#Ref<0.155928093.3974103041.260319>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.5571.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}}  
2022-06-27 20:43:20.997 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5571.1>,connection\_down}  
2022-06-27 20:43:21.018 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:43:31.004 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.24.161.210":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:43:31.163 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:43:31.349 1 [info] <0.5575.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 20:43:31.356 1 [info] <0.5575.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.24.161.210">>,http\_connection => <0.5574.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{},name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 20:43:31.676 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.5575.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 20:43:31.676 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}  
2022-06-27 20:43:31.677 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 20:43:31.677 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:43:31.680 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5574.1>,{function\_clause, [{http2\_client,handle\_settings, [ [],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6013>,socket_mon =>
#Ref<0.155928093.3974103041.260873>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5575.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:43:31.681 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5575.1>,connection_down}
2022-06-27 20:43:31.683 1 [error] <0.5574.1>@http2_client:handle_settings:822
gen_server <0.5574.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:43:31.685 1 [error] <0.5574.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5574.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:43:31.685 1 [error] <0.5575.1>@Undefined:Undefined:Undefined
gen_server <0.5575.1> terminated with reason: connection_down
2022-06-27 20:43:31.686 1 [error] <0.5575.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5575.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 20:43:36.894 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:43:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:43:36.895 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:43:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:43:36.896 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5821,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:43:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:43:41.300 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:43:41.680 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:43:41.970 1 [info] <0.5578.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:43:41.971 1 [info] <0.5578.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.5577.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,grpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:43:42.253 1 [error] <0.5577.1>@http2_client:handle_settings:822
gen_server <0.5577.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:43:42.256 1 [error] <0.5577.1>@http2_client:handle_settings:822
```

CRASH REPORT Process <0.5577.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:43:42.256 1 [error] <0.5578.1>@Undefined:Undefined:Undefined gen\_server <0.5578.1> terminated with reason: connection\_down

2022-06-27 20:43:42.256 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.5578.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]}]

2022-06-27 20:43:42.257 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 20:43:42.257 1 [error] <0.5578.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.5578.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:43:42.258 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 20:43:42.258 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:43:42.259 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5577.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

```
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {56,
{<<":authority">>,<<"18.228.115.118">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6014>,socket_mon =>
#Ref<0.155928093.3974103041.261652>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5578.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 20:43:42.259 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5578.1>,connection_down}
2022-06-27 20:43:51.448 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:43:52.268 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:44:01.602 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:44:06.892 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:44:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:44:06.892 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:44:06
GMT">>,<<"txnb">> => 0}
```

```
2022-06-27 20:44:06.893 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5825,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:44:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:44:11.745 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:44:21.891 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:44:22.282 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 20:44:22.282 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:44:22.287 1 [error] <0.5581.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5581.1> with 0 neighbours exited with reason: timeout
in gen_server:init_it/6 line 407
2022-06-27 20:44:22.287 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5581.1>,timeout}
2022-06-27 20:44:32.032 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:44:32.284 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:44:32.568 1 [info] <0.5602.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:44:32.569 1 [info] <0.5602.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```



```
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.5601.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:44:32.838 1 [error] <0.5601.1>@http2_client:handle_settings:822
gen_server <0.5601.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:44:32.841 1 [error] <0.5601.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5601.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:44:32.841 1 [error] <0.5602.1>@Undefined:Undefined:Undefined
gen_server <0.5602.1> terminated with reason: connection_down
2022-06-27 20:44:32.841 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5602.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:44:32.841 1 [error] <0.5602.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5602.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:44:32.842 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 20:44:32.842 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 20:44:32.842 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:44:32.844 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5601.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"13.125.32.225">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]}, host => "13.125.32.225",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6016>,socket\_mon => #Ref<0.155928093.3973316611.205864>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5602.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}

2022-06-27 20:44:32.844 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5602.1>,connection\_down} 2022-06-27 20:44:36.894 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:44:36 GMT">>,<<"txnb">> => 0}} from

12291671073248440251 on 35152

2022-06-27 20:44:36.895 1 [info]

```
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:44:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:44:36.896 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5829,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:44:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:44:42.181 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:44:42.852 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:44:43.189 1 [info] <0.5605.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:44:43.190 1 [info] <0.5605.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.5604.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:44:43.522 1 [error] <0.5604.1>@http2_client:handle_settings:822
gen_server <0.5604.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:44:43.523 1 [error] <0.5604.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5604.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:44:43.524 1 [error] <0.5605.1>@Undefined:Undefined:Undefined
gen_server <0.5605.1> terminated with reason: connection_down
```

```
2022-06-27 20:44:43.525 1 [error] <0.5605.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5605.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:44:43.526 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5605.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:44:43.526 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:44:43.527 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:44:43.527 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:44:43.528 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5604.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6017>,socket_mon =>
#Ref<0.155928093.3974365185.3620>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.5605.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:44:43.529 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5605.1>,connection_down}
2022-06-27 20:44:51.249 1 [warning] <0.5468.1>@blockchain:add_bin_snapshot:
{1983,13} error adding snapshot: error:{badmatch,{error,{error,"Corruption: block
checksum mismatch: stored = 1975174337, computed = 3807013015 in /var/data/
blockchain.db/015769.sst offset 486887 size 514635"}}},
[{blockchain,add_bin_snapshot,4,[{file,"blockchain.erl"},{line,1981}],
{blockchain_worker,attempt_load_snapshot_from_disk,3,
[{file,"blockchain_worker.erl"},{line,1345}],{blockchain_worker,'-
start_snapshot_sync/1-fun-0-',5,[{file,"blockchain_worker.erl"},{line,1083}]}]}
2022-06-27 20:44:51.249 1 [error]
<0.5468.1>@blockchain_worker:start_snapshot_sync:{1092,39} snapshot
download or loading failed because {badmatch,{error,{badmatch,{error,
{error,"Corruption: block checksum mismatch: stored = 1975174337, computed =
3807013015 in /var/data/blockchain.db/015769.sst offset 486887 size
514635"}}}}}: [{blockchain_worker,attempt_load_snapshot_from_disk,3,
[{file,"blockchain_worker.erl"},{line,1345}],{blockchain_worker,'-
start_snapshot_sync/1-fun-0-',5,[{file,"blockchain_worker.erl"},{line,1083}]}]}
2022-06-27 20:44:51.250 1 [warning]
<0.1662.0>@blockchain_worker:handle_info:{648,5} Snapshot attempt 3 exited
with: {badmatch,{error,{badmatch,{error,{error,"Corruption: block checksum
mismatch: stored = 1975174337, computed = 3807013015 in /var/data/
blockchain.db/015769.sst offset 486887 size 514635"}}}}}; will retry again in a
while...
2022-06-27 20:44:52.322 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:44:53.534 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
```

```
{gateway_validators_req_v1_pb,1}
2022-06-27 20:44:53.865 1 [info] <0.5609.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:44:53.866 1 [info] <0.5609.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.5608.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:44:54.193 1 [error] <0.5608.1>@http2_client:handle_settings:822
gen_server <0.5608.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:44:54.195 1 [error] <0.5608.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5608.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:44:54.195 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5609.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:44:54.195 1 [error] <0.5609.1>@Undefined:Undefined:Undefined
gen_server <0.5609.1> terminated with reason: connection_down
2022-06-27 20:44:54.195 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

```
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:44:54.195 1 [error] <0.5609.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5609.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:44:54.195 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:44:54.195 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:44:54.197 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5608.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6018>,socket_mon =>
#Ref<0.155928093.3973578754.117257>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5609.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:44:54.198 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5609.1>,connection_down}
2022-06-27 20:45:00.528 1 [info] <0.1636.0>@libp2p_peerbook:notify_peers:
```

```
{726,5} gossiping out 2 notify peers
2022-06-27 20:45:02.461 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:45:04.198 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:45:04.365 1 [info] <0.5618.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:45:04.367 1 [info] <0.5618.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.5617.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:45:04.524 1 [error] <0.5617.1>@http2_client:handle_settings:822
gen_server <0.5617.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:45:04.525 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5618.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:45:04.525 1 [error] <0.5617.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5617.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```



```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:45:04.525 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:45:04.526 1 [error] <0.5618.1>@Undefined:Undefined:Undefined
gen_server <0.5618.1> terminated with reason: connection_down
2022-06-27 20:45:04.526 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:45:04.526 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:45:04.526 1 [error] <0.5618.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5618.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:45:04.527 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5617.1>,{function_clause,
[{http2_client,handle_settings,
[[[],<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6019>,socket_mon =>
#Ref<0.155928093.3973578754.117485>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5618.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:45:04.528 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5618.1>,connection_down}
2022-06-27 20:45:06.902 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:45:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:45:06.903 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:45:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:45:06.904 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5833,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:45:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:45:12.602 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:45:14.529 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:45:14.621 1 [info] <0.5621.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:45:14.622 1 [info] <0.5621.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.5620.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:45:14.707 1 [error] <0.5620.1>@http2_client:handle_settings:822
```

```
gen_server <0.5620.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:45:14.709 1 [error] <0.5620.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5620.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:45:14.709 1 [error] <0.5621.1>@Undefined:Undefined:Undefined
gen_server <0.5621.1> terminated with reason: connection_down
2022-06-27 20:45:14.709 1 [error] <0.5621.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5621.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:45:14.710 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5621.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:45:14.710 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:45:14.710 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:45:14.710 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:45:14.712 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5620.1>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {52,
{<<":authority">>,<<"52.30.1.39">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6020>,socket_mon =>
#Ref<0.155928093.3973578754.117651>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5621.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}}
2022-06-27 20:45:14.712 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5621.1>,connection_down}
2022-06-27 20:45:22.741 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:45:24.713 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:45:24.944 1 [info] <0.5625.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:45:24.945 1 [info] <0.5625.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.5624.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:45:25.169 1 [error] <0.5624.1>@http2_client:handle_settings:822
gen_server <0.5624.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:45:25.171 1 [error] <0.5624.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5624.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:45:25.172 1 [error] <0.5625.1>@Undefined:Undefined:Undefined
gen_server <0.5625.1> terminated with reason: connection_down
2022-06-27 20:45:25.172 1 [error] <0.5625.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5625.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:45:25.172 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5625.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:45:25.172 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:45:25.173 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:45:25.173 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:45:25.175 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5624.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{53, {<<":authority">>,<<"54.70.239.5">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "54.70.239.5",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6021>,socket\_mon => #Ref<0.155928093.3973578754.117801>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5625.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}]

2022-06-27 20:45:25.175 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5625.1>,connection\_down} 2022-06-27 20:45:32.908 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:45:35.176 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.30.111.82":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:45:35.268 1 [info] <0.5628.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 20:45:35.270 1 [info] <0.5628.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

```
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.5627.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:45:35.352 1 [error] <0.5627.1>@http2_client:handle_settings:822
gen_server <0.5627.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:45:35.353 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5628.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:45:35.353 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:45:35.353 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:45:35.353 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:45:35.354 1 [error] <0.5627.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5627.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 20:45:35.354 1 [error] <0.5628.1>@Undefined:Undefined:Undefined
gen_server <0.5628.1> terminated with reason: connection_down
2022-06-27 20:45:35.354 1 [error] <0.5628.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5628.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:45:35.355 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5627.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6022>,socket_mon =>
#Ref<0.155928093.3973578754.117949>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5628.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:45:35.355 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5628.1>,connection_down}
2022-06-27 20:45:36.899 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:45:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```



```
2022-06-27 20:45:36.900 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:45:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:45:36.901 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5837,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:45:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:45:37.932 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 7,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAEsa3V/ALkaAN/hAQ9DWhlubPEVLGa5T0+x/1vf/
OicSj44vVvf1QVEdpJvfd/Vw==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">>
=> -234,<<"freq">> => 867.9,<<"jver">> => 1,<<"lsnr">> => -21.8,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -112,<<"rssi">>
=> -133,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 1304001719}}} from
12291671073248440251 on 35152
2022-06-27 20:45:43.058 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:45:45.356 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:45:45.633 1 [info] <0.5631.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:45:45.634 1 [info] <0.5631.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.5630.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,grpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:45:45.905 1 [error] <0.5630.1>@http2_client:handle_settings:822
gen_server <0.5630.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:45:45.907 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5631.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:45:45.908 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:45:45.908 1 [error] <0.5630.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5630.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:45:45.908 1 [error] <0.5631.1>@Undefined:Undefined:Undefined
gen_server <0.5631.1> terminated with reason: connection_down
2022-06-27 20:45:45.909 1 [error] <0.5631.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5631.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:45:45.911 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:45:45.912 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:45:45.913 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5630.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6023>,socket_mon =>
#Ref<0.155928093.3973578754.118118>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5631.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:45:45.914 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5631.1>,connection_down}
2022-06-27 20:45:53.208 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:45:55.915 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:45:56.086 1 [info] <0.5634.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:45:56.089 1 [info] <0.5634.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.5633.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => [{],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 20:45:56.251 1 [error] <0.5633.1>@http2_client:handle_settings:822
gen_server <0.5633.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:45:56.252 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5634.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:45:56.252 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:45:56.252 1 [error] <0.5633.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5633.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:45:56.252 1 [error] <0.5634.1>@Undefined:Undefined:Undefined
gen_server <0.5634.1> terminated with reason: connection_down
2022-06-27 20:45:56.253 1 [error] <0.5634.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5634.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:45:56.253 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:45:56.253 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:45:56.255 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5633.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6024>,socket_mon =>
#Ref<0.155928093.3974365185.4763>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.5634.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:45:56.257 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5634.1>,connection_down}
2022-06-27 20:46:03.352 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:46:06.256 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:46:06.493 1 [info] <0.5655.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:46:06.495 1 [info] <0.5655.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.5650.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:46:06.722 1 [error] <0.5650.1>@http2_client:handle_settings:822
gen_server <0.5650.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:46:06.724 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5655.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:46:06.725 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:46:06.725 1 [error] <0.5650.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5650.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:46:06.725 1 [error] <0.5655.1>@Undefined:Undefined:Undefined
gen_server <0.5655.1> terminated with reason: connection_down
2022-06-27 20:46:06.725 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:46:06.725 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 20:46:06.725 1 [error] <0.5655.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5655.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:46:06.727 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5650.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6025>,socket_mon =>
#Ref<0.155928093.3974365185.4993>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.5655.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}]}
2022-06-27 20:46:06.727 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5655.1>,connection_down} 2022-06-27
20:46:06.902 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:46:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:46:06.903 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> =>
```

```
1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:46:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:46:06.904 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5841,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:46:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:46:13.488 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:46:16.728 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:46:16.896 1 [info] <0.5660.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:46:16.898 1 [info] <0.5660.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.5659.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:46:17.058 1 [error] <0.5659.1>@http2_client:handle_settings:822
gen_server <0.5659.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:46:17.059 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5660.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```



```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:46:17.059 1 [error] <0.5659.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5659.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:46:17.059 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:46:17.059 1 [error] <0.5660.1>@Undefined:Undefined:Undefined
gen_server <0.5660.1> terminated with reason: connection_down
2022-06-27 20:46:17.060 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:46:17.060 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:46:17.061 1 [error] <0.5660.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5660.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:46:17.061 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5659.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6026>,socket_mon =>
```

```
#Ref<0.155928093.3974365185.5090>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.5660.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 20:46:17.062 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5660.1>,connection_down}
2022-06-27 20:46:23.636 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:46:27.062 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:46:33.785 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:46:36.905 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:46:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:46:36.905 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:46:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:46:36.907 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5845,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:46:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:46:41.837 1 [notice]
<0.5672.1>@libp2p_stream_relay:handle_info:{146,5} client init bridge Server to
```

Client {libp2p\_relay\_bridge\_rs\_pb,"/p2p/  
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv","/  
ip4/5.230.68.168/tcp/44158"}  
2022-06-27 20:46:42.000 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/  
112AWGsXhaneQqj3UhtPqgFYzM7EjHmMPF4BaPHVqt2vTwpKH5n5" informed us  
of our observed address "/ip4/80.77.186.186/tcp/4586"  
2022-06-27 20:46:42.316 1 [info] <0.5679.1>@libp2p\_stream\_proxy:init:{59,5} init  
proxy server with {{connection,libp2p\_yamux\_stream,<0.5678.1>},  
[[],<0.1631.0>,blockchain\_swarm]]  
2022-06-27 20:46:42.450 1 [info]  
<0.5679.1>@libp2p\_stream\_proxy:handle\_server\_data:{131,5} server got dial back  
request {libp2p\_proxy\_dial\_back\_pb}  
2022-06-27 20:46:43.942 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:46:54.085 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:46:57.066 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,timeout}},  
[{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{}file,"miner\_poc\_grpc\_client\_statem.erl",{}line,719]}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{}file,"miner\_poc\_grpc\_client\_statem.erl",{}line,467]}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{}file,"miner\_poc\_grpc\_client\_statem.erl",{}line,221]}],  
{gen\_statem,loop\_state\_callback,11,[{}file,"gen\_statem.erl",{}line,1203]}],  
{proc\_lib,init\_p\_do\_apply,3,[{}file,"proc\_lib.erl",{}line,226]}}]  
2022-06-27 20:46:57.066 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 20:46:57.067 1 [error] <0.5662.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.5662.1> with 0 neighbours exited with reason:  
timeout in gen\_server:init\_it/6 line 407  
2022-06-27 20:46:57.067 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5662.1>,timeout}  
2022-06-27 20:47:04.235 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:47:06.905 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA

```
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:47:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:47:06.906 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:47:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:47:06.907 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5849,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:47:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:47:07.068 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:47:07.396 1 [info] <0.5686.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:47:07.398 1 [info] <0.5686.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.5685.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:47:07.722 1 [error] <0.5685.1>@http2_client:handle_settings:822
gen_server <0.5685.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:47:07.723 1 [error] <0.5685.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5685.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 20:47:07.724 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{{283,13}} Failed to create stream. Type: exit, Error: {connection_down,
{{gen_server,call,[<0.5686.1>,{rcv,10000},infinity]}}, Stack:{{gen_server,call,3,
{{file,"gen_server.erl"},{line,247}}},
{{grpc_client_stream_custom,process_response,2,
{{file,"grpc_client_stream_custom.erl"},{line,418}}},{{grpc_client_custom,unary,6,
{{file,"grpc_client_custom.erl"},{line,278}}},
{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}},
{{miner_poc_grpc_client_statem,find_validator,0,
{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{{miner_poc_grpc_client_statem,setup,3,
{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{{gen_statem,loop_state_callback,11,{{file,"gen_statem.erl"},{line,1203}}},
{{proc_lib,init_p_do_apply,3,{{file,"proc_lib.erl"},{line,226}}}}
2022-06-27 20:47:07.724 1 [error] <0.5686.1>@Undefined:Undefined:Undefined
gen_server <0.5686.1> terminated with reason: connection_down
2022-06-27 20:47:07.724 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:47:07.725 1 [error] <0.5686.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5686.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:47:07.725 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:47:07.726 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:47:07.728 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5685.1>,{function_clause,
{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.211.55.217">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6030>,socket_mon =>
#Ref<0.155928093.3973578754.119314>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5686.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:47:07.729 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5686.1>,connection_down}
2022-06-27 20:47:14.384 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:47:17.729 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:47:17.962 1 [info] <0.5718.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:47:17.963 1 [info] <0.5718.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.5717.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:47:18.186 1 [error] <0.5717.1>@http2_client:handle_settings:822
gen_server <0.5717.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:47:18.188 1 [error] <0.5717.1>@http2_client:handle_settings:822
```

CRASH REPORT Process <0.5717.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:47:18.189 1 [error] <0.5718.1>@Undefined:Undefined:Undefined gen\_server <0.5718.1> terminated with reason: connection\_down

2022-06-27 20:47:18.190 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.5718.1>,{rcv,10000},infinity]}}, Stack: [{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]]

2022-06-27 20:47:18.190 1 [error] <0.5718.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.5718.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:47:18.190 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 20:47:18.190 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 20:47:18.191 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:47:18.192 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5717.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

```
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"35.82.239.134">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6036>,socket_mon =>
#Ref<0.155928093.3973578754.119462>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5718.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 20:47:18.193 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5718.1>,connection_down}
2022-06-27 20:47:21.697 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1638.0>
2022-06-27 20:47:24.525 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:47:28.193 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:47:28.492 1 [info] <0.5724.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:47:28.493 1 [info] <0.5724.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.5723.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => [],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```



miner\_poc\_grpc\_client\_handler

2022-06-27 20:47:28.761 1 [error] <0.5723.1>@http2\_client:handle\_settings:822  
gen\_server <0.5723.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 20:47:28.762 1 [error] <0.5723.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.5723.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 20:47:28.762 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.5724.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]}],

{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]}],

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}],

{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}],

{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}],

{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]}],

{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]}]}

2022-06-27 20:47:28.762 1 [error] <0.5724.1>@Undefined:Undefined:Undefined  
gen\_server <0.5724.1> terminated with reason: connection\_down

2022-06-27 20:47:28.762 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 20:47:28.762 1 [error] <0.5724.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.5724.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:47:28.762 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 20:47:28.762 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 20:47:28.764 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5723.1>,{function_clause,
[ {http2_client,handle_settings,
[ [],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},]}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6037>,socket_mon =>
#Ref<0.155928093.3973578754.119619>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5724.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:47:28.764 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5724.1>,connection_down} 2022-06-27
20:47:34.675 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:47:36.902 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:47:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:47:36.903 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:47:36
GMT">>,<<"txnb">> => 0}
```

```
2022-06-27 20:47:36.904 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5853,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:47:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:47:38.765 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:47:39.000 1 [info] <0.5727.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:47:39.000 1 [info] <0.5727.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.5726.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:47:39.232 1 [error] <0.5726.1>@http2_client:handle_settings:822
gen_server <0.5726.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:47:39.234 1 [error] <0.5726.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5726.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:47:39.234 1 [error] <0.5727.1>@Undefined:Undefined:Undefined
gen_server <0.5727.1> terminated with reason: connection_down
2022-06-27 20:47:39.234 1 [error] <0.5727.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5727.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:47:39.235 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5727.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:47:39.235 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:47:39.235 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:47:39.235 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:47:39.237 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5726.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6038>,socket_mon =>
#Ref<0.155928093.3973054468.220400>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5727.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:47:39.237 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5727.1>,connection_down}
2022-06-27 20:47:44.824 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:47:49.238 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:47:49.513 1 [info] <0.5730.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:47:49.514 1 [info] <0.5730.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.5729.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:47:49.784 1 [error] <0.5729.1>@http2_client:handle_settings:822
gen_server <0.5729.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:47:49.786 1 [error] <0.5729.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5729.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:47:49.787 1 [error] <0.5730.1>@Undefined:Undefined:Undefined
gen_server <0.5730.1> terminated with reason: connection_down
2022-06-27 20:47:49.788 1 [error] <0.5730.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5730.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:47:49.788 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5730.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:47:49.789 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:47:49.789 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:47:49.790 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:47:49.793 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5729.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6039>,socket_mon =>
```

```
#Ref<0.155928093.3973578754.119882>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5730.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 20:47:49.794 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5730.1>,connection_down}
2022-06-27 20:47:54.972 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:47:59.792 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:48:00.023 1 [info] <0.5733.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:48:00.024 1 [info] <0.5733.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.5732.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:48:00.247 1 [error] <0.5732.1>@http2_client:handle_settings:822
gen_server <0.5732.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:48:00.249 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5733.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}],
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 20:48:00.249 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:48:00.249 1 [error] <0.5732.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5732.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:48:00.249 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:48:00.249 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:48:00.249 1 [error] <0.5733.1>@Undefined:Undefined:Undefined
gen_server <0.5733.1> terminated with reason: connection_down
2022-06-27 20:48:00.250 1 [error] <0.5733.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5733.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:48:00.251 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5732.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.89.130.114">>}}},{63,{<<":path">>,<<"/helium.gateway/
```



```
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6040>,socket_mon =>
#Ref<0.155928093.3973578754.120017>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5733.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:48:00.252 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5733.1>,connection_down}
2022-06-27 20:48:05.111 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:48:06.906 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:48:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:48:06.906 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:48:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:48:06.908 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5857,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:48:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:48:10.251 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
```

2022-06-27 20:48:15.255 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:48:25.402 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:48:35.548 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:48:36.908 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:48:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 20:48:36.909 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:48:36 GMT">>,<<"txnb">> => 0}

2022-06-27 20:48:36.910 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5861,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:48:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 20:48:40.255 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}]],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}]],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}]],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}]],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}}]

2022-06-27 20:48:40.255 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:48:40.256 1 [error] <0.5735.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.5735.1> with 0 neighbours exited with reason: timeout in gen\_server:init\_it/6 line 407

```
2022-06-27 20:48:40.258 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5735.1>,timeout}
2022-06-27 20:48:45.695 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:48:50.258 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:48:50.530 1 [info] <0.5754.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:48:50.531 1 [info] <0.5754.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.5753.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:48:50.801 1 [error] <0.5753.1>@http2_client:handle_settings:822
gen_server <0.5753.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:48:50.802 1 [error] <0.5753.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5753.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:48:50.803 1 [error] <0.5754.1>@Undefined:Undefined:Undefined
gen_server <0.5754.1> terminated with reason: connection_down
2022-06-27 20:48:50.804 1 [error] <0.5754.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5754.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:48:50.804 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5754.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 20:48:50.804 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:48:50.805 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:48:50.805 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:48:50.806 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5753.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6042>,socket_mon =>
#Ref<0.155928093.3973054468.220639>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5754.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:48:50.807 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5754.1>,connection_down} 2022-06-27
20:48:55.838 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:49:00.808 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:49:01.042 1 [info] <0.5757.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:49:01.045 1 [info] <0.5757.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.5756.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:49:01.274 1 [error] <0.5756.1>@http2_client:handle_settings:822
gen_server <0.5756.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:49:01.278 1 [error] <0.5756.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5756.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:49:01.278 1 [error] <0.5757.1>@Undefined:Undefined:Undefined
gen_server <0.5757.1> terminated with reason: connection_down
2022-06-27 20:49:01.279 1 [error] <0.5757.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5757.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:49:01.279 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5757.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:49:01.280 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:49:01.281 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:49:01.282 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:49:01.286 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5756.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6043>,socket_mon =>
#Ref<0.155928093.3973054468.220689>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.5757.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 20:49:01.287 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5757.1>,connection_down}
2022-06-27 20:49:05.975 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:49:06.901 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:49:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:49:06.901 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:49:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:49:06.902 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5865,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:49:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:49:11.285 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:49:11.368 1 [info] <0.5760.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:49:11.369 1 [info] <0.5760.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.5759.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:49:11.444 1 [error] <0.5759.1>@http2_client:handle_settings:822
gen_server <0.5759.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:49:11.445 1 [error] <0.5759.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5759.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:49:11.446 1 [error] <0.5760.1>@Undefined:Undefined:Undefined
gen_server <0.5760.1> terminated with reason: connection_down
2022-06-27 20:49:11.446 1 [error] <0.5760.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5760.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:49:11.447 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5760.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:49:11.447 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:49:11.448 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:49:11.448 1 [warning]
```



<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:49:11.449 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5759.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,282,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{52, {<<":authority">>,<<"3.72.215.7">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.72.215.7",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6044>,socket\_mon => #Ref<0.155928093.3974365185.7487>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5760.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 20:49:11.450 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5760.1>,connection\_down}  
2022-06-27 20:49:16.122 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:49:21.451 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.228.158.83":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:49:21.725 1 [info] <0.5769.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 20:49:21.726 1 [info] <0.5769.1>@grpc\_client\_stream\_custom:init:

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.5766.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:49:21.995 1 [error] <0.5766.1>@http2_client:handle_settings:822
gen_server <0.5766.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:49:21.997 1 [error] <0.5766.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5766.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:49:21.998 1 [error] <0.5769.1>@Undefined:Undefined:Undefined
gen_server <0.5769.1> terminated with reason: connection_down
2022-06-27 20:49:21.998 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5769.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:49:21.998 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:49:21.998 1 [error] <0.5769.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5769.1> with 0 neighbours exited with reason:
```

connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:49:21.999 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 20:49:22.000 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 20:49:22.002 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5766.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}]},host => "18.228.158.83",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6045>,socket\_mon =>  
#Ref<0.155928093.3974365185.7667>,state => open,stream\_count => 1,streams  
=> [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner =>  
<0.5769.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}

2022-06-27 20:49:22.002 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5769.1>,connection\_down}

2022-06-27 20:49:26.262 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

2022-06-27 20:49:32.002 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send

unary request via new connection to ip "54.251.77.229":

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 20:49:32.242 1 [info] <0.5782.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 20:49:32.244 1 [info] <0.5782.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"54.251.77.229">>,http_connection => <0.5781.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 20:49:32.475 1 [error] <0.5781.1>@http2_client:handle_settings:822
```

```
gen_server <0.5781.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 20:49:32.476 1 [error] <0.5781.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.5781.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 20:49:32.477 1 [error] <0.5782.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.5782.1> terminated with reason: connection_down
```

```
2022-06-27 20:49:32.477 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.5782.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}],{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 20:49:32.478 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:49:32.478 1 [error] <0.5782.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5782.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:49:32.478 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:49:32.479 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:49:32.481 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5781.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6046>,socket_mon =>
#Ref<0.155928093.3974365185.7985>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.5782.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:49:32.481 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5782.1>,connection_down} 2022-06-27
```

20:49:36.405 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:49:36.906 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:49:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 20:49:36.906 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:49:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 20:49:36.908 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5869,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:49:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 20:49:42.482 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.38.70.101":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:49:46.561 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:49:46.863 1 [info] <0.5785.1>@libp2p\_transport\_proxy:connect:{38,5} init proxy with ["/p2p/11UanqfCqanGrRDS64zorBSZ9TWkBZCr5egnehuE8AoG3usyLMj","/p2p/112i58n4eyW647vSyGpgwRuxBWB7DQzta77ZaLhPbun6EVjfKWGk"]  
2022-06-27 20:49:46.870 1 [error]  
<0.5785.1>@libp2p\_transport\_proxy:connect\_to:{69,13} failed to dial proxy server "/p2p/11UanqfCqanGrRDS64zorBSZ9TWkBZCr5egnehuE8AoG3usyLMj" not\_found  
2022-06-27 20:49:46.873 1 [warning]  
<0.1643.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/112i58n4eyW647vSyGpgwRuxBWB7DQzta77ZaLhPbun6EVjfKWGk": [{"/p2p/11UanqfCqanGrRDS64zorBSZ9TWkBZCr5egnehuE8AoG3usyLMj/p2p-circuit/p2p/112i58n4eyW647vSyGpgwRuxBWB7DQzta77ZaLhPbun6EVjfKWGk"},fail\_dial\_proxy}]  
2022-06-27 20:49:51.348 1 [info] <0.1662.0>@blockchain\_worker:start\_sync:{888,13} new block sync starting with Pid: <0.5786.1>, Ref: #Ref<0.155928093.3974365185.8313>, Peer: "/p2p/

11ty48DRDyLz1bPxLKnbp5F1uteevfZdjUac8PE1YVimAe6HYgJ"  
2022-06-27 20:49:52.477 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/  
11ty48DRDyLz1bPxLKnbp5F1uteevfZdjUac8PE1YVimAe6HYgJ" informed us of our  
observed address "/ip4/80.77.186.186/tcp/21549"  
2022-06-27 20:49:56.695 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:49:58.339 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"rxpk">> => [#<<"chan">> => 3,<<"codr">> => <<"4/5">>,<<"data">> =>  
<<"QDDaAAHqDh7hALz2AJFMYtWKS3qUB+HpDq0K57ALYn1nPNzpst7p7cNUfZus  
+1hf5pOACg==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>  
-121,<<"freq">> => 867.1,<<"jver">> => 1,<<"lsnr">> => -12.2,<<"mid">> =>  
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -111,<<"rssi">>  
=> -123,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 1564408865]]} from  
12291671073248440251 on 35152  
2022-06-27 20:49:59.289 1 [info]  
<0.5797.1>@blockchain\_sync\_handler:handle\_data:{132,5} adding sync blocks  
[1409926,1409927,1409928,1409929,1409930]  
2022-06-27 20:50:02.172 1 [info]  
<0.5797.1>@blockchain\_sync\_handler:handle\_data:{142,13} Eagerly re-gossiping  
1409930  
2022-06-27 20:50:03.770 1 [info] <0.5803.1>@blockchain\_txn:validate:{299,5}  
valid: [], invalid: []  
2022-06-27 20:50:03.853 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_payment\_v1  
2022-06-27 20:50:04.166 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 298 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 20:50:04.263 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 373 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 20:50:04.540 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 373 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 20:50:04.645 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 104 ms to absorb blockchain\_txn\_validator\_heartbeat\_v1  
2022-06-27 20:50:04.659 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 396 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 20:50:04.700 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_validator\_heartbeat\_v1  
2022-06-27 20:50:04.816 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:04.841 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:04.869 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}

took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:04.920 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.022 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 102 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.076 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 416 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 20:50:05.077 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.152 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.199 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.271 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.350 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.380 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.418 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.539 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 463 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 20:50:05.541 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 122 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.594 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.637 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.689 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.792 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.828 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.843 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 303 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 20:50:05.857 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:05.903 1 [info] <0.5810.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:06.080 1 [info]  
<0.5810.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected 241  
POCs for block height 1409875



2022-06-27 20:50:06.178 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:06.236 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:06.299 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:06.367 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:06.428 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:06.507 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:06.586 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:06.642 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:06.680 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:06.745 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:06.798 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:06.841 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:06.867 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:50:06.903 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:50:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 20:50:06.903 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #{<<"ackr">>  
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> =>  
1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:50:06  
GMT">>,<<"txnb">> => 0}  
2022-06-27 20:50:06.904 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=5873,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 20:50:06 GMT">>,<<"txnb">> =>

0},rtt\_samples=[],rtt=5000000}  
2022-06-27 20:50:06.928 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 84 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:07.018 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 89 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:07.105 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 87 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:07.165 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:07.220 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:07.276 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:07.319 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:07.398 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:07.487 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 85 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:07.536 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:07.622 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 87 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:07.726 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 104 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:07.787 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:07.833 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:07.896 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:07.976 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:08.073 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 96 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:08.170 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 97 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:08.273 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 102 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:08.340 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:08.400 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:08.472 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}

took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:08.545 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:08.616 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:08.660 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:08.719 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:08.802 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:08.861 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:08.931 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:08.982 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.033 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.085 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.162 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.259 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 98 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.318 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.352 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.389 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.439 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.479 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.521 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.559 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.587 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.645 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.674 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}

took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.754 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 80 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.851 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 97 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:09.953 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 102 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.024 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.088 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.146 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.202 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.251 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.309 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.353 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.423 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.480 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.546 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.596 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.652 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.712 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.761 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.832 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.926 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 94 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:10.976 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:11.052 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:11.145 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}

took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:11.256 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 111 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:11.339 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 83 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:11.439 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 100 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:11.514 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 75 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:11.547 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:11.587 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:11.622 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:11.658 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:11.709 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:11.781 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:11.876 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 91 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:11.927 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:11.997 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:12.089 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 92 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:12.154 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:12.182 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:12.225 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:12.272 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:12.340 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:12.432 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 92 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:12.485 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,timeout}},

```
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:50:12.485 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:50:12.486 1 [error] <0.5784.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5784.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 20:50:12.492 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5784.1>,timeout}
2022-06-27 20:50:12.499 1 [info] <0.5803.1>@blockchain_txn:absorb:{578,21}
took 67 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 20:50:12.546 1 [info] <0.5803.1>@blockchain_txn:absorb:{578,21}
took 47 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 20:50:12.602 1 [info] <0.5803.1>@blockchain_txn:absorb:{578,21}
took 30 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 20:50:12.640 1 [info] <0.5803.1>@blockchain_txn:absorb:{578,21}
took 37 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 20:50:12.695 1 [info] <0.5803.1>@blockchain_txn:absorb:{578,21}
took 53 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 20:50:12.736 1 [info] <0.5803.1>@blockchain_txn:absorb:{578,21}
took 41 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 20:50:12.811 1 [info] <0.5803.1>@blockchain_txn:absorb:{578,21}
took 75 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 20:50:12.885 1 [info] <0.5803.1>@blockchain_txn:absorb:{578,21}
took 73 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 20:50:12.947 1 [info] <0.5803.1>@blockchain_txn:absorb:{578,21}
took 61 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 20:50:12.980 1 [info] <0.5803.1>@blockchain_txn:absorb:{578,21}
took 33 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 20:50:13.025 1 [info] <0.5803.1>@blockchain_txn:absorb:{578,21}
took 45 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 20:50:13.102 1 [info] <0.5803.1>@blockchain_txn:absorb:{578,21}
took 76 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 20:50:13.165 1 [info] <0.5803.1>@blockchain_txn:absorb:{578,21}
took 63 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 20:50:13.225 1 [info] <0.5803.1>@blockchain_txn:absorb:{578,21}
```

took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:13.291 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:13.356 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:13.401 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:13.491 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:13.545 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:13.613 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:13.720 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 107 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:13.797 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:13.904 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 106 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:13.980 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 75 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:14.034 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:14.083 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:14.141 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:14.211 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:14.276 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:14.346 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:14.394 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:14.447 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:14.505 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:14.581 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:14.646 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:14.690 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}

took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:14.769 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:14.861 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 92 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:14.954 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:15.054 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 100 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:15.149 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 95 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:15.243 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:15.315 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:15.388 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:15.448 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:15.509 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:15.565 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:15.627 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:15.683 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:15.731 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:15.800 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:15.848 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:15.893 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:15.964 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:16.058 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:16.107 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:16.176 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:16.276 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}



took 100 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:16.344 1 [info] <0.5803.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 20:50:16.477 1 [info]  
<0.5803.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected  
212 POCs for block height 1409926  
2022-06-27 20:50:16.658 1 [error] emulator@Undefined:Undefined:Undefined  
Error in process <0.5803.1> on node 'miner@127.0.0.1' with exit value: {{badmatch,  
{error,{error,"Corruption: block checksum mismatch: stored = 1975174337,  
computed = 3807013015 in /var/data/blockchain.db/015769.sst offset 486887 size  
514635"}},[{blockchain,save\_block,2,[{file,"blockchain.erl"}, {line,2535}]},  
{blockchain,'-add\_block\_/3-fun-0-',5,[{file,"blockchain.erl"}, {line,1136}]},  
{blockchain\_txn,unvalidated\_absorb\_and\_commit,4, [{file,"blockchain\_txn.erl"},  
{line,508}]},{blockchain,add\_block\_,3, [{file,"blockchain.erl"},{line,1157}]},  
{blockchain,'-check\_plausible\_blocks/2- fun-1-',4,[{file,"blockchain.erl"},  
{line,2989}]},{lists,foreach,2,[{file,"lists.erl"}, {line,1342}]},  
{blockchain,check\_plausible\_blocks,2,[{file,"blockchain.erl"}, {line,2983}]}}}  
2022-06-27 20:50:16.684 1 [info] <0.1662.0>@blockchain\_worker:handle\_info:  
{673,53} block sync down: normal  
2022-06-27 20:50:17.008 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 20:50:22.488 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.131.232.233":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:50:22.649 1 [info] <0.5813.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 20:50:22.651 1 [info] <0.5813.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"3.131.232.233">>,http\_connection => <0.5812.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}},name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 20:50:22.806 1 [error] <0.5812.1>@http2\_client:handle\_settings:822  
gen\_server <0.5812.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

```
2022-06-27 20:50:22.808 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5813.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 20:50:22.809 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 20:50:22.809 1 [error] <0.5812.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5812.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 20:50:22.810 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 20:50:22.811 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 20:50:22.812 1 [error] <0.5813.1>@Undefined:Undefined:Undefined
gen_server <0.5813.1> terminated with reason: connection_down
```

```
2022-06-27 20:50:22.813 1 [error] <0.5813.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5813.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 20:50:22.815 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5812.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6057>,socket_mon =>
#Ref<0.155928093.3974365185.11801>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.5813.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:50:22.816 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5813.1>,connection_down}
2022-06-27 20:50:27.145 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:50:27.853 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11pRX4dT9TDqzyQoqq7YcldrVo45nn1D8DPxmqf9QzZCzSum4Kc" informed us of
our observed address "/ip4/80.77.186.186/tcp/61928"
2022-06-27 20:50:32.814 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:50:32.974 1 [info] <0.5846.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:50:32.975 1 [info] <0.5846.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.5845.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:50:33.130 1 [error] <0.5845.1>@http2_client:handle_settings:822
gen_server <0.5845.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:50:33.132 1 [error] <0.5845.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5845.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:50:33.133 1 [error] <0.5846.1>@Undefined:Undefined:Undefined
gen_server <0.5846.1> terminated with reason: connection_down
2022-06-27 20:50:33.134 1 [error] <0.5846.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5846.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:50:33.137 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5846.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:50:33.138 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:50:33.138 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:50:33.139 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 20:50:33.141 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5845.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6063>,socket_mon =>
#Ref<0.155928093.3974365185.12251>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.5846.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:50:33.141 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5846.1>,connection_down}
2022-06-27 20:50:36.908 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:50:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:50:36.908 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:50:36
GMT">>,<<"txnb">> => 0}
```

```
2022-06-27 20:50:36.909 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5876,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:50:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:50:37.289 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:50:43.142 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:50:43.419 1 [info] <0.5849.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:50:43.420 1 [info] <0.5849.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.5848.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:50:43.693 1 [error] <0.5848.1>@http2_client:handle_settings:822
gen_server <0.5848.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:50:43.695 1 [error] <0.5848.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5848.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:50:43.695 1 [error] <0.5849.1>@Undefined:Undefined:Undefined
gen_server <0.5849.1> terminated with reason: connection_down
2022-06-27 20:50:43.696 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5849.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}],{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:50:43.696 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:50:43.697 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:50:43.697 1 [error] <0.5849.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5849.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:50:43.698 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:50:43.699 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5848.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"18.228.158.83">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6064>,socket_mon =>
#Ref<0.155928093.3974365185.12351>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
```

```
<0.5849.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 20:50:43.700 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5849.1>,connection_down}
2022-06-27 20:50:47.435 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:50:53.700 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:50:53.976 1 [info] <0.5853.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:50:53.977 1 [info] <0.5853.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.5852.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:50:54.252 1 [error] <0.5852.1>@http2_client:handle_settings:822
gen_server <0.5852.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:50:54.255 1 [error] <0.5852.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5852.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:50:54.256 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```



```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5853.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:50:54.256 1 [error] <0.5853.1>@Undefined:Undefined:Undefined
gen_server <0.5853.1> terminated with reason: connection_down
2022-06-27 20:50:54.256 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:50:54.257 1 [error] <0.5853.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5853.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:50:54.258 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:50:54.261 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:50:54.264 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5852.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6065>,socket_mon =>
#Ref<0.155928093.3974365185.12418>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.5853.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:50:54.264 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5853.1>,connection_down}
2022-06-27 20:50:57.571 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:51:04.264 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:51:04.497 1 [info] <0.5856.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:51:04.500 1 [info] <0.5856.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.5855.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:51:04.734 1 [error] <0.5855.1>@http2_client:handle_settings:822
gen_server <0.5855.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:51:04.735 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.5856.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:51:04.736 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:51:04.737 1 [error] <0.5855.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5855.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:51:04.738 1 [error] <0.5856.1>@Undefined:Undefined:Undefined
gen_server <0.5856.1> terminated with reason: connection_down
2022-06-27 20:51:04.739 1 [error] <0.5856.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5856.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:51:04.740 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:51:04.740 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:51:04.742 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5855.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6066>,socket_mon =>
#Ref<0.155928093.3973578754.122629>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5856.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:51:04.742 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5856.1>,connection_down}
2022-06-27 20:51:06.908 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:51:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:51:06.908 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:51:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:51:06.910 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5880,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:51:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:51:07.715 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:51:14.743 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

unary request via new connection to ip "3.70.55.231":

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 20:51:14.825 1 [info] <0.5859.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 20:51:14.827 1 [info] <0.5859.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"3.70.55.231">>,http_connection => <0.5858.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 20:51:14.905 1 [error] <0.5858.1>@http2_client:handle_settings:822
```

```
gen_server <0.5858.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 20:51:14.910 1 [error] <0.5858.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.5858.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 20:51:14.911 1 [error] <0.5859.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.5859.1> terminated with reason: connection_down
```

```
2022-06-27 20:51:14.912 1 [error] <0.5859.1>@Undefined:Undefined:Undefined
```

```
CRASH REPORT Process <0.5859.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 20:51:14.912 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.5859.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}],{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:51:14.913 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:51:14.914 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:51:14.914 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:51:14.918 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5858.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6067>,socket_mon =>
#Ref<0.155928093.3973578754.122780>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5859.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}]
2022-06-27 20:51:14.918 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5859.1>,connection_down}
```

```
2022-06-27 20:51:17.852 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:51:24.917 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:51:25.156 1 [info] <0.5863.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:51:25.157 1 [info] <0.5863.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.5862.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:51:25.390 1 [error] <0.5862.1>@http2_client:handle_settings:822
gen_server <0.5862.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:51:25.391 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5863.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:51:25.391 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 20:51:25.392 1 [error] <0.5862.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5862.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:51:25.392 1 [error] <0.5863.1>@Undefined:Undefined:Undefined
gen_server <0.5863.1> terminated with reason: connection_down
2022-06-27 20:51:25.393 1 [error] <0.5863.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5863.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:51:25.394 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:51:25.394 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:51:25.395 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5862.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6068>,socket_mon =>
#Ref<0.155928093.3973578754.122965>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5863.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
```



```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]]}
2022-06-27 20:51:25.395 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5863.1>,connection_down} 2022-06-27
20:51:27.998 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 20:51:35.397 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:51:35.729 1 [info] <0.5891.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:51:35.731 1 [info] <0.5891.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.5881.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:51:36.057 1 [error] <0.5881.1>@http2_client:handle_settings:822
gen_server <0.5881.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:51:36.060 1 [error] <0.5881.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5881.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:51:36.062 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5891.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:51:36.062 1 [error] <0.5891.1>@Undefined:Undefined:Undefined
gen_server <0.5891.1> terminated with reason: connection_down
2022-06-27 20:51:36.062 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:51:36.063 1 [error] <0.5891.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5891.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:51:36.064 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:51:36.064 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:51:36.066 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5881.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6070>,socket_mon =>
#Ref<0.155928093.3973578754.123218>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5891.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:51:36.067 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5891.1>,connection_down}
2022-06-27 20:51:36.909 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:51:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:51:36.910 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:51:36 GMT">>,<<"txnb">> => 0}
2022-06-27 20:51:36.911 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5884,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:51:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:51:38.141 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:51:46.066 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:51:46.148 1 [info] <0.5902.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:51:46.149 1 [info] <0.5902.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.5901.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

miner\_poc\_grpc\_client\_handler

2022-06-27 20:51:46.222 1 [error] <0.5901.1>@http2\_client:handle\_settings:822  
gen\_server <0.5901.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:51:46.224 1 [error] <0.5901.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.5901.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:51:46.226 1 [error] <0.5902.1>@Undefined:Undefined:Undefined  
gen\_server <0.5902.1> terminated with reason: connection\_down

2022-06-27 20:51:46.227 1 [error] <0.5902.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.5902.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:51:46.229 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.5902.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]

2022-06-27 20:51:46.230 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 20:51:46.230 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 20:51:46.231 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 20:51:46.234 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5901.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6071>,socket_mon =>
#Ref<0.155928093.3974365185.13078>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5902.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 20:51:46.235 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5902.1>,connection_down}
2022-06-27 20:51:48.291 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:51:56.233 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:51:56.401 1 [info] <0.5905.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:51:56.403 1 [info] <0.5905.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.5904.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:51:56.561 1 [error] <0.5904.1>@http2_client:handle_settings:822
gen_server <0.5904.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:51:56.563 1 [error] <0.5904.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5904.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:51:56.563 1 [error] <0.5905.1>@Undefined:Undefined:Undefined
gen_server <0.5905.1> terminated with reason: connection_down
2022-06-27 20:51:56.564 1 [error] <0.5905.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5905.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:51:56.564 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5905.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:51:56.564 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:51:56.565 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 20:51:56.565 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:51:56.566 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5904.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.137.92.200",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6072>,socket\_mon => #Ref<0.155928093.3973578754.123631>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5905.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 20:51:56.566 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5905.1>,connection\_down}

2022-06-27 20:51:58.448 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:52:06.568 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.72.143.228": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:52:06.649 1 [info] <0.5908.1>@grpc\_client\_stream\_custom:init:

```
{131,9} init stream for RPC validators and type unary
2022-06-27 20:52:06.650 1 [info] <0.5908.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.5907.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:52:06.724 1 [error] <0.5907.1>@http2_client:handle_settings:822
gen_server <0.5907.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:52:06.725 1 [error] <0.5907.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5907.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:52:06.727 1 [error] <0.5908.1>@Undefined:Undefined:Undefined
gen_server <0.5908.1> terminated with reason: connection_down
2022-06-27 20:52:06.728 1 [error] <0.5908.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5908.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:52:06.728 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5908.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:52:06.729 1 [info]
```



```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:52:06.729 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:52:06.729 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:52:06.732 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5907.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6073>,socket_mon =>
#Ref<0.155928093.3974365185.13241>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.5908.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:52:06.734 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5908.1>,connection_down} 2022-06-27
20:52:06.916 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 20:52:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:52:06.917 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:52:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:52:06.918 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5888,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:52:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:52:08.588 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:52:16.732 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:52:16.899 1 [info] <0.5911.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:52:16.901 1 [info] <0.5911.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.5910.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:52:17.060 1 [error] <0.5910.1>@http2_client:handle_settings:822
gen_server <0.5910.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:52:17.061 1 [error] <0.5910.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5910.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 20:52:17.061 1 [error] <0.5911.1>@Undefined:Undefined:Undefined  
gen\_server <0.5911.1> terminated with reason: connection\_down

2022-06-27 20:52:17.062 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.5911.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]

2022-06-27 20:52:17.062 1 [error] <0.5911.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.5911.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:52:17.062 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 20:52:17.062 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 20:52:17.063 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 20:52:17.064 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5910.1>,{function\_clause,  
[{"http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[],},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "3.131.232.233",last\_stream => 1,owner =>

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6074>,socket_mon =>
#Ref<0.155928093.3973578754.123840>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5911.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:52:17.065 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5911.1>,connection_down}
2022-06-27 20:52:18.731 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:52:21.698 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1643.0>
2022-06-27 20:52:27.064 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:52:27.396 1 [info] <0.5915.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:52:27.397 1 [info] <0.5915.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.5914.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:52:27.719 1 [error] <0.5914.1>@http2_client:handle_settings:822
gen_server <0.5914.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 20:52:27.721 1 [error] <0.5914.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5914.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 20:52:27.722 1 [error] <0.5915.1>@Undefined:Undefined:Undefined
gen_server <0.5915.1> terminated with reason: connection_down
2022-06-27 20:52:27.722 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5915.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:52:27.722 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:52:27.722 1 [error] <0.5915.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5915.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:52:27.723 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:52:27.724 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:52:27.728 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5914.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6075>,socket_mon =>
#Ref<0.155928093.3974365185.13570>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5915.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 20:52:27.729 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5915.1>,connection_down}
2022-06-27 20:52:28.878 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:52:36.909 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:52:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:52:36.910 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:52:36 GMT">>,<<"txnb">> => 0}
2022-06-27 20:52:36.911 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5892,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 20:52:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:52:37.727 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:52:38.057 1 [info] <0.5926.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:52:38.058 1 [info] <0.5926.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.5923.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:52:38.387 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5926.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:52:38.388 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:52:38.388 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:52:38.389 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:52:38.389 1 [error] <0.5923.1>@http2_client:handle_settings:822
```

```
gen_server <0.5923.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:52:38.390 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5923.1>,{function_clause,
[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"13.237.155.172">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6076>,socket_mon =>
#Ref<0.155928093.3973578754.124056>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5926.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:52:38.390 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5926.1>,connection_down}
2022-06-27 20:52:38.392 1 [error] <0.5923.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5923.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:52:38.393 1 [error] <0.5926.1>@Undefined:Undefined:Undefined
```



```
gen_server <0.5926.1> terminated with reason: connection_down
2022-06-27 20:52:38.394 1 [error] <0.5926.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5926.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:52:39.028 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:52:48.391 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:52:48.473 1 [info] <0.5941.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:52:48.474 1 [info] <0.5941.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.5940.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:52:48.550 1 [error] <0.5940.1>@http2_client:handle_settings:822
gen_server <0.5940.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:52:48.552 1 [error] <0.5940.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5940.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:52:48.553 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5941.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:52:48.554 1 [error] <0.5941.1>@Undefined:Undefined:Undefined
gen_server <0.5941.1> terminated with reason: connection_down
2022-06-27 20:52:48.554 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:52:48.554 1 [error] <0.5941.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5941.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:52:48.555 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:52:48.555 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:52:48.558 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5940.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6077>,socket_mon =>
#Ref<0.155928093.3974365185.14085>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5941.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:52:48.559 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5941.1>,connection_down}
2022-06-27 20:52:49.168 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:52:58.558 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:52:58.797 1 [info] <0.5944.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:52:58.798 1 [info] <0.5944.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.5943.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:52:59.038 1 [error] <0.5943.1>@http2_client:handle_settings:822
gen_server <0.5943.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:52:59.039 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5944.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 20:52:59.040 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:52:59.042 1 [error] <0.5943.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5943.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:52:59.042 1 [error] <0.5944.1>@Undefined:Undefined:Undefined
gen_server <0.5944.1> terminated with reason: connection_down
2022-06-27 20:52:59.043 1 [error] <0.5944.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5944.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:52:59.044 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:52:59.044 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:52:59.048 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5943.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{56,
{<<":authority">>,<<"52.220.227.216">>}],{63,<<":path">>,<<"/helium.gateway/
validators">>}}]],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6078>,socket_mon =>
```

```
#Ref<0.155928093.3974365185.14233>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5944.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 20:52:59.049 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5944.1>,connection_down}
2022-06-27 20:52:59.331 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:53:06.918 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:53:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:53:06.918 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:53:06 GMT">>,<<"txnb">> => 0}
2022-06-27 20:53:06.920 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5896,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:53:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:53:09.047 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:53:09.131 1 [info] <0.5947.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:53:09.133 1 [info] <0.5947.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.5946.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:53:09.213 1 [error] <0.5946.1>@http2_client:handle_settings:822
gen_server <0.5946.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:53:09.216 1 [error] <0.5946.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5946.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:53:09.216 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5947.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:53:09.217 1 [error] <0.5947.1>@Undefined:Undefined:Undefined
gen_server <0.5947.1> terminated with reason: connection_down
2022-06-27 20:53:09.217 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:53:09.217 1 [error] <0.5947.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5947.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:53:09.218 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 20:53:09.218 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:53:09.220 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5946.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.122.38.248",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6079>,socket\_mon => #Ref<0.155928093.3974365185.14395>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5947.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}

2022-06-27 20:53:09.220 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5947.1>,connection\_down}

2022-06-27 20:53:09.478 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:53:17.525 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA

#{<<"rxpk">> => [#{<<"chan">> => 0,<<"codr">> => <<"4/5">>,<<"data">> => <<"QDDaAAH20r6jABu1Alt2dbgC3a0ZVnCMZnjiSB5EIUEUqTo2rxFEDO+rFK2Hz8tX9Q8jeQ==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> => 254,<<"freq">>

```
=> 868.1,<<"jver">> => 1,<<"lsnr">> => -7.0,<<"mid">> => 0,<<"modu">> =>
<<"LORA">>,<<"rfch">> => 1,<<"rssi">> => -108,<<"rssi">> => -115,<<"size">>
=> 52,<<"stat">> => 1,<<"tmst">> => 1763598337]]} from
12291671073248440251 on 35152
2022-06-27 20:53:19.220 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:53:19.492 1 [info] <0.5950.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:53:19.493 1 [info] <0.5950.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.5949.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:53:19.629 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:53:19.764 1 [error] <0.5949.1>@http2_client:handle_settings:822
gen_server <0.5949.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:53:19.765 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5950.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```



2022-06-27 20:53:19.765 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 20:53:19.765 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 20:53:19.766 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:53:19.766 1 [error] <0.5949.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.5949.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:53:19.766 1 [error] <0.5950.1>@Undefined:Undefined:Undefined gen\_server <0.5950.1> terminated with reason: connection\_down

2022-06-27 20:53:19.767 1 [error] <0.5950.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.5950.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:53:19.767 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5949.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"13.209.94.225">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "13.209.94.225",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6080>,socket\_mon => #Ref<0.155928093.3973054468.221061>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5950.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport =>

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:53:19.767 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5950.1>,connection_down}
2022-06-27 20:53:29.768 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:53:29.778 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:53:29.997 1 [info] <0.5954.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:53:29.999 1 [info] <0.5954.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.5953.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:53:30.220 1 [error] <0.5953.1>@http2_client:handle_settings:822
gen_server <0.5953.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:53:30.221 1 [error] <0.5953.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5953.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:53:30.222 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5954.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]]},
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}],{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:53:30.222 1 [error] <0.5954.1>@Undefined:Undefined:Undefined
gen_server <0.5954.1> terminated with reason: connection_down
2022-06-27 20:53:30.222 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:53:30.223 1 [error] <0.5954.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5954.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:53:30.223 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:53:30.223 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:53:30.224 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5953.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6081>,socket_mon =>
```

```
#Ref<0.155928093.3974365185.14743>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5954.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 20:53:30.225 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5954.1>,connection_down}
2022-06-27 20:53:36.918 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:53:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:53:36.919 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:53:36 GMT">>,<<"txnb">> => 0}
2022-06-27 20:53:36.920 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5900,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:53:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:53:39.924 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:53:40.225 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:53:40.458 1 [info] <0.5959.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:53:40.459 1 [info] <0.5959.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.5958.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:53:40.690 1 [error] <0.5958.1>@http2_client:handle_settings:822
gen_server <0.5958.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:53:40.691 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5959.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:53:40.691 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:53:40.691 1 [error] <0.5958.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5958.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:53:40.692 1 [error] <0.5959.1>@Undefined:Undefined:Undefined
gen_server <0.5959.1> terminated with reason: connection_down
2022-06-27 20:53:40.693 1 [error] <0.5959.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5959.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:53:40.693 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 20:53:40.694 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 20:53:40.697 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5958.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{56, {<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}]}},host => "44.229.159.157",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6082>,socket\_mon => #Ref<0.155928093.3973316611.207252>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.5959.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]

2022-06-27 20:53:40.698 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.5959.1>,connection\_down}

2022-06-27 20:53:50.078 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:53:50.697 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.215.29.4":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:53:50.929 1 [info] <0.5980.1>@grpc\_client\_stream\_custom:init:

```
{131,9} init stream for RPC validators and type unary
2022-06-27 20:53:50.931 1 [info] <0.5980.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.5979.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:53:51.155 1 [error] <0.5979.1>@http2_client:handle_settings:822
gen_server <0.5979.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:53:51.156 1 [error] <0.5979.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5979.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:53:51.157 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5980.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:53:51.158 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:53:51.158 1 [error] <0.5980.1>@Undefined:Undefined:Undefined
gen_server <0.5980.1> terminated with reason: connection_down
```

2022-06-27 20:53:51.158 1 [error] <0.5980.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.5980.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:53:51.158 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 20:53:51.159 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 20:53:51.160 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5979.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{53,  
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "13.215.29.4",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6083>,socket\_mon =>  
#Ref<0.155928093.3973316611.207284>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.5980.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 20:53:51.161 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.5980.1>,connection\_down} 2022-06-27  
20:54:00.232 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5}  
PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:54:01.160 1 [info]



```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:54:01.441 1 [info] <0.5983.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:54:01.445 1 [info] <0.5983.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.5982.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:54:01.716 1 [error] <0.5982.1>@http2_client:handle_settings:822
gen_server <0.5982.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:54:01.717 1 [error] <0.5982.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5982.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:54:01.718 1 [error] <0.5983.1>@Undefined:Undefined:Undefined
gen_server <0.5983.1> terminated with reason: connection_down
2022-06-27 20:54:01.718 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5983.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 20:54:01.718 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:54:01.719 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:54:01.719 1 [error] <0.5983.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5983.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:54:01.719 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:54:01.721 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5982.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6084>,socket_mon =>
#Ref<0.155928093.3974365185.15450>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5983.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}]
2022-06-27 20:54:01.721 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

in setup state: Type: info, Msg: {'EXIT',<0.5983.1>,connection\_down} 2022-06-27 20:54:06.919 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:54:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 20:54:06.920 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:54:06 GMT">>,<<"txnb">> => 0}

2022-06-27 20:54:06.922 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:{440,5} Gateway #gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5904,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:54:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 20:54:10.384 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:54:11.722 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.209.94.225": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:54:11.999 1 [info] <0.5986.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 20:54:12.000 1 [info] <0.5986.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"13.209.94.225">>,http\_connection => <0.5985.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 20:54:12.274 1 [error] <0.5985.1>@http2\_client:handle\_settings:822 gen\_server <0.5985.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:54:12.274 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5986.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:54:12.274 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:54:12.275 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:54:12.275 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:54:12.276 1 [error] <0.5985.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5985.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:54:12.276 1 [error] <0.5986.1>@Undefined:Undefined:Undefined
gen_server <0.5986.1> terminated with reason: connection_down
2022-06-27 20:54:12.277 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5985.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
```

```
{<<":authority">>,<<"13.209.94.225">>},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6085>,socket_mon =>
#Ref<0.155928093.3973578754.124819>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5986.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:54:12.278 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5986.1>,connection_down}
2022-06-27 20:54:12.278 1 [error] <0.5986.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5986.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:54:20.531 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:54:22.278 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:54:22.557 1 [info] <0.5989.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:54:22.559 1 [info] <0.5989.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.5988.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:54:22.816 1 [error] <0.5988.1>@http2_client:handle_settings:822
gen_server <0.5988.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:54:22.817 1 [error] <0.5988.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5988.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:54:22.818 1 [error] <0.5989.1>@Undefined:Undefined:Undefined
gen_server <0.5989.1> terminated with reason: connection_down
2022-06-27 20:54:22.818 1 [error] <0.5989.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5989.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:54:22.818 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5989.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:54:22.819 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:54:22.819 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:54:22.819 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:54:22.821 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5988.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6086>,socket_mon =>
#Ref<0.155928093.3974365185.15805>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5989.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 20:54:22.821 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5989.1>,connection_down}
2022-06-27 20:54:30.671 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:54:32.822 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:54:33.102 1 [info] <0.5992.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:54:33.104 1 [info] <0.5992.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.5991.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:54:33.374 1 [error] <0.5991.1>@http2_client:handle_settings:822
gen_server <0.5991.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:54:33.376 1 [error] <0.5991.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.5991.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:54:33.377 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.5992.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:54:33.377 1 [error] <0.5992.1>@Undefined:Undefined:Undefined
gen_server <0.5992.1> terminated with reason: connection_down
2022-06-27 20:54:33.377 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:54:33.378 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:54:33.378 1 [error] <0.5992.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5992.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:54:33.378 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```



```
validator failed: {error,req_failed}
2022-06-27 20:54:33.382 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5991.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6087>,socket_mon =>
#Ref<0.155928093.3974365185.15993>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.5992.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:54:33.383 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5992.1>,connection_down}
2022-06-27 20:54:36.920 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:54:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:54:36.920 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:54:36
GMT">>,<<"txnb">> => 0}
```

2022-06-27 20:54:36.921 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5908,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:54:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 20:54:40.828 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:54:43.381 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.38.70.101":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:54:50.971 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:54:59.888 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"rxpk">> => [#{<<"chan">> => 5,<<"codr">> => <<"4/5">>,<<"data">> => <<"QDDaAAGc0zXgAAknAAAtMkyfKhme62mej+iHMMosuPNsoTov+gOJwzr+SI5FddL41jOcuOw==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> => -96,<<"freq">> => 867.5,<<"jver">> => 1,<<"lsnr">> => -12.5,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -111,<<"rssi\_s">> => -123,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 1865952098}}} from 12291671073248440251 on 35152

2022-06-27 20:55:01.111 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:55:06.921 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:55:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 20:55:06.922 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:55:06 GMT">>,<<"txnb">> => 0}

2022-06-27 20:55:06.925 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5912,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>

```
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:55:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000)
2022-06-27 20:55:11.258 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:55:13.387 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:55:13.388 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:55:13.389 1 [error] <0.5994.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.5994.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 20:55:13.390 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.5994.1>,timeout}
2022-06-27 20:55:21.406 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:55:23.391 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:55:23.718 1 [info] <0.6031.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:55:23.719 1 [info] <0.6031.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.6030.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

miner\_poc\_grpc\_client\_handler

2022-06-27 20:55:24.045 1 [error] <0.6030.1>@http2\_client:handle\_settings:822  
gen\_server <0.6030.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:55:24.047 1 [error] <0.6030.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.6030.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:55:24.047 1 [error] <0.6031.1>@Undefined:Undefined:Undefined  
gen\_server <0.6031.1> terminated with reason: connection\_down

2022-06-27 20:55:24.048 1 [error] <0.6031.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.6031.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:55:24.049 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.6031.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]}],

{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]}],

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}],

{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}],

{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}],

{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]}],

{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]}]

2022-06-27 20:55:24.049 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 20:55:24.051 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 20:55:24.051 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 20:55:24.052 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6030.1>,{function_clause,
[{:http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6090>,socket_mon =>
#Ref<0.155928093.3974365185.17272>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6031.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 20:55:24.053 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6031.1>,connection_down}
2022-06-27 20:55:31.562 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:55:34.054 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:55:34.144 1 [info] <0.6034.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:55:34.145 1 [info] <0.6034.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.6033.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:55:34.237 1 [error] <0.6033.1>@http2_client:handle_settings:822
gen_server <0.6033.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:55:34.241 1 [error] <0.6033.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6033.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:55:34.241 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6034.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:55:34.242 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:55:34.242 1 [error] <0.6034.1>@Undefined:Undefined:Undefined
gen_server <0.6034.1> terminated with reason: connection_down
2022-06-27 20:55:34.243 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:55:34.243 1 [error] <0.6034.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6034.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:55:34.243 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:55:34.245 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6033.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6091>,socket_mon =>
#Ref<0.155928093.3973316611.207512>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6034.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 20:55:34.246 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6034.1>,connection_down}
2022-06-27 20:55:36.928 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:55:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:55:36.928 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
```

```
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 1,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:55:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:55:36.930 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5916,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:55:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:55:41.718 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:55:44.246 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:55:44.525 1 [info] <0.6037.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:55:44.526 1 [info] <0.6037.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.6036.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:55:44.801 1 [error] <0.6036.1>@http2_client:handle_settings:822
gen_server <0.6036.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:55:44.804 1 [error] <0.6036.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6036.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:55:44.804 1 [error] <0.6037.1>@Undefined:Undefined:Undefined
gen_server <0.6037.1> terminated with reason: connection_down
2022-06-27 20:55:44.804 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```



```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6037.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:55:44.805 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:55:44.805 1 [error] <0.6037.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6037.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:55:44.805 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:55:44.806 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:55:44.809 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6036.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},server_window => 65528,socket => #Port<0.6092>,socket_mon =>
#Ref<0.155928093.3973316611.207543>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6037.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 20:55:44.810 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6037.1>,connection_down}
2022-06-27 20:55:51.855 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:55:54.809 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:55:54.898 1 [info] <0.6048.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:55:54.899 1 [info] <0.6048.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.6047.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:55:54.982 1 [error] <0.6047.1>@http2_client:handle_settings:822
gen_server <0.6047.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:55:54.984 1 [error] <0.6047.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6047.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:55:54.985 1 [error] <0.6048.1>@Undefined:Undefined:Undefined
gen_server <0.6048.1> terminated with reason: connection_down
2022-06-27 20:55:54.985 1 [error] <0.6048.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6048.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:55:54.986 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6048.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:55:54.986 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:55:54.987 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:55:54.987 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:55:54.989 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6047.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
```

```
{<<":authority">>,<<"52.210.14.128">>},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6093>,socket_mon =>
#Ref<0.155928093.3974365185.17839>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6048.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}}
2022-06-27 20:55:54.990 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6048.1>,connection_down} 2022-06-27
20:55:57.941 1 [info] <0.1631.0>@libp2p_transport_tcp:record_observed_addr:
{1060,21} peer "/p2p/
11t5fSr7B2mitX8VBYe9v2kUzt5VLfb46QD5Xbc2w4xgHB3igqE" informed us of
our observed address "/ip4/80.77.186.186/tcp/48273"
2022-06-27 20:56:02.009 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:56:04.990 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:56:05.152 1 [info] <0.6079.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:56:05.154 1 [info] <0.6079.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.6078.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:56:05.307 1 [error] <0.6078.1>@http2_client:handle_settings:822
```

```
gen_server <0.6078.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:56:05.308 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6079.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:56:05.308 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:56:05.309 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:56:05.309 1 [error] <0.6078.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6078.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:56:05.309 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:56:05.310 1 [error] <0.6079.1>@Undefined:Undefined:Undefined
gen_server <0.6079.1> terminated with reason: connection_down
2022-06-27 20:56:05.310 1 [error] <0.6079.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6079.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:56:05.311 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6078.1>,{function_clause,
```

```
[{http2_client,handle_settings,
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6099>,socket_mon =>
#Ref<0.155928093.3974365185.18286>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6079.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 20:56:05.311 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6079.1>,connection_down}
2022-06-27 20:56:06.922 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:56:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:56:06.924 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:56:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:56:06.926 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5920,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
```

```
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:56:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:56:12.148 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:56:15.311 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:56:15.650 1 [info] <0.6082.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:56:15.652 1 [info] <0.6082.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.6081.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:56:15.979 1 [error] <0.6081.1>@http2_client:handle_settings:822
gen_server <0.6081.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:56:15.980 1 [error] <0.6081.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6081.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:56:15.981 1 [error] <0.6082.1>@Undefined:Undefined:Undefined
gen_server <0.6082.1> terminated with reason: connection_down
2022-06-27 20:56:15.982 1 [error] <0.6082.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6082.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:56:15.982 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6082.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 20:56:15.982 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:56:15.983 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:56:15.983 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:56:15.985 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6081.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6100>,socket_mon =>
#Ref<0.155928093.3974365185.18465>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6082.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```



```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:56:15.985 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6082.1>,connection_down}
2022-06-27 20:56:22.301 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:56:25.986 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:56:32.449 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:56:36.923 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:56:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:56:36.924 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:56:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:56:36.925 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5924,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:56:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:56:42.605 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:56:52.744 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:56:55.989 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
```

```
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}}]
2022-06-27 20:56:55.989 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:56:55.990 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6084.1>,timeout}
2022-06-27 20:56:55.990 1 [error] <0.6084.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6084.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 20:57:02.895 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:57:05.992 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:57:06.231 1 [info] <0.6111.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:57:06.233 1 [info] <0.6111.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.6110.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:57:06.461 1 [error] <0.6110.1>@http2_client:handle_settings:822
gen_server <0.6110.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:57:06.462 1 [error] <0.6110.1>@http2_client:handle_settings:822
```

CRASH REPORT Process <0.6110.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 20:57:06.465 1 [error] <0.6111.1>@Undefined:Undefined:Undefined gen\_server <0.6111.1> terminated with reason: connection\_down  
2022-06-27 20:57:06.465 1 [error] <0.6111.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.6111.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:57:06.465 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.6111.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]]  
2022-06-27 20:57:06.465 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}  
2022-06-27 20:57:06.466 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 20:57:06.466 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:57:06.468 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6110.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

```
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6102>,socket_mon =>
#Ref<0.155928093.3974365185.19595>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6111.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 20:57:06.468 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6111.1>,connection_down}
2022-06-27 20:57:06.932 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:57:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:57:06.932 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:57:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:57:06.933 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5928,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:57:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:57:13.045 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 20:57:16.469 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:57:16.634 1 [info] <0.6114.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:57:16.636 1 [info] <0.6114.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.6113.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:57:16.782 1 [error] <0.6113.1>@http2_client:handle_settings:822
gen_server <0.6113.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:57:16.783 1 [error] <0.6113.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6113.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:57:16.784 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6114.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:57:16.784 1 [error] <0.6114.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.6114.1> terminated with reason: connection_down
2022-06-27 20:57:16.784 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:57:16.784 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:57:16.784 1 [error] <0.6114.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6114.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:57:16.784 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:57:16.786 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6113.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6103>,socket_mon =>
#Ref<0.155928093.3974365185.19800>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6114.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 20:57:16.786 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6114.1>,connection_down}
2022-06-27 20:57:21.699 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1642.0>
2022-06-27 20:57:23.191 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:57:26.787 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:57:27.028 1 [info] <0.6120.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:57:27.029 1 [info] <0.6120.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.6119.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:57:27.256 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: error, Error: {case_clause,eof}, Stack:
[{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:57:27.256 1 [error] <0.6119.1>@Undefined:Undefined:Undefined
gen_server <0.6119.1> terminated with reason: closed_by_peer
2022-06-27 20:57:27.256 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:57:27.258 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 20:57:27.258 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 20:57:27.258 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6119.1>,closed\_by\_peer}  
2022-06-27 20:57:27.258 1 [error] <0.6119.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.6119.1> with 0 neighbours exited with reason: closed\_by\_peer in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:57:27.258 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6120.1>,connection\_down}  
2022-06-27 20:57:27.259 1 [error] <0.6120.1>@Undefined:Undefined:Undefined  
gen\_server <0.6120.1> terminated with reason: connection\_down  
2022-06-27 20:57:27.259 1 [error] <0.6120.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.6120.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:57:33.332 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 20:57:36.931 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:57:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 20:57:36.931 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:57:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 20:57:36.933 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_json\_data:{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5932,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:57:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 20:57:37.261 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "44.229.159.157":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:57:37.490 1 [info] <0.6123.1>@grpc\_client\_stream\_custom:init:



```
{131,9} init stream for RPC validators and type unary
2022-06-27 20:57:37.491 1 [info] <0.6123.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.6122.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:57:37.706 1 [error] <0.6122.1>@http2_client:handle_settings:822
gen_server <0.6122.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:57:37.708 1 [error] <0.6122.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6122.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 20:57:37.708 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6123.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 20:57:37.708 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:57:37.709 1 [error] <0.6123.1>@Undefined:Undefined:Undefined
gen_server <0.6123.1> terminated with reason: connection_down
```

2022-06-27 20:57:37.709 1 [error] <0.6123.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.6123.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 20:57:37.710 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 20:57:37.710 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 20:57:37.711 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6122.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{56,  
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}},host => "44.229.159.157",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6105>,socket\_mon =>  
#Ref<0.155928093.3974365185.20179>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.6123.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}]}

2022-06-27 20:57:37.712 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6123.1>,connection\_down}

2022-06-27 20:57:43.475 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

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2022-06-27 20:57:47.713 1 [info]
<0.1817.0>@miner_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:57:48.043 1 [info] <0.6139.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:57:48.044 1 [info] <0.6139.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.6135.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:57:48.282 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11M5DjgzzLrUmVh1jhZyQmieTh72PD9U3jH6Qhy9zWU4zoB4cTr" informed us of
our observed address "/ip4/80.77.186.186/tcp/37145"
2022-06-27 20:57:48.367 1 [error] <0.6135.1>@http2_client:handle_settings:822
gen_server <0.6135.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:57:48.368 1 [error] <0.6135.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6135.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:57:48.368 1 [error] <0.6139.1>@Undefined:Undefined:Undefined
gen_server <0.6139.1> terminated with reason: connection_down
2022-06-27 20:57:48.369 1 [error] <0.6139.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6139.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:57:48.369 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6139.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:57:48.369 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:57:48.370 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:57:48.370 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:57:48.371 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6135.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6111>,socket_mon =>
#Ref<0.155928093.3974365185.20461>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6139.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 20:57:48.372 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6139.1>,connection_down}
2022-06-27 20:57:53.618 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:57:58.373 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:57:58.600 1 [info] <0.6146.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:57:58.601 1 [info] <0.6146.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.6145.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:57:58.824 1 [error] <0.6145.1>@http2_client:handle_settings:822
gen_server <0.6145.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:57:58.825 1 [error] <0.6145.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6145.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:57:58.825 1 [error] <0.6146.1>@Undefined:Undefined:Undefined
gen_server <0.6146.1> terminated with reason: connection_down
2022-06-27 20:57:58.826 1 [error] <0.6146.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6146.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:57:58.826 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.6146.1>,{rcv,10000},infinity]}}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:57:58.826 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:57:58.826 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:57:58.827 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:57:58.828 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6145.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6112>,socket_mon =>
#Ref<0.155928093.3974365185.20661>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6146.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 20:57:58.829 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6146.1>,connection_down}
2022-06-27 20:58:01.753 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 6,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"gHD9uQCAJ4MC1qtMayHKVM+3U6DtH9w0otoR4/s">>,<<"datr">> =>
<<"SF12BW125">>,<<"foff">> => 635,<<"freq">> => 867.7,<<"jver">> =>
1,<<"lsnr">> => -22.5,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 0,<<"rssi">> => -112,<<"rssid">> => -134,<<"size">> => 29,<<"stat">> =>
1,<<"tmst">> => 2047816012]}} from 12291671073248440251 on 35152
2022-06-27 20:58:03.758 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:58:06.925 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:58:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:58:06.926 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> =>
1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:58:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:58:06.928 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5936,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:58:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:58:08.828 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 20:58:08.915 1 [info] <0.6161.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:58:08.916 1 [info] <0.6161.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.6160.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 20:58:08.997 1 [error] <0.6160.1>@http2_client:handle_settings:822
gen_server <0.6160.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:58:08.999 1 [error] <0.6160.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6160.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:58:09.000 1 [error] <0.6161.1>@Undefined:Undefined:Undefined
gen_server <0.6161.1> terminated with reason: connection_down
2022-06-27 20:58:09.000 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6161.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 20:58:09.001 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```



```
<<"stream create failed">>}}
2022-06-27 20:58:09.001 1 [error] <0.6161.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6161.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:58:09.001 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:58:09.002 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:58:09.004 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6160.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6113>,socket_mon =>
#Ref<0.155928093.3974365185.20936>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6161.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}
2022-06-27 20:58:09.004 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6161.1>,connection_down}
2022-06-27 20:58:13.912 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
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12291671073248440251 on 56833  
2022-06-27 20:58:19.003 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.125.32.225":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 20:58:19.276 1 [info] <0.6172.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 20:58:19.278 1 [info] <0.6172.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"13.125.32.225">>,http\_connection => <0.6171.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 20:58:19.546 1 [error] <0.6171.1>@http2\_client:handle\_settings:822 gen\_server <0.6171.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 20:58:19.547 1 [error] <0.6171.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.6171.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 20:58:19.549 1 [error] <0.6172.1>@Undefined:Undefined:Undefined gen\_server <0.6172.1> terminated with reason: connection\_down  
2022-06-27 20:58:19.549 1 [error] <0.6172.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.6172.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 20:58:19.550 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.6172.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0,

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[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:58:19.550 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:58:19.550 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:58:19.550 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:58:19.552 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6171.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6114>,socket_mon =>
#Ref<0.155928093.3974365185.21220>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6172.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]]}
```

2022-06-27 20:58:19.552 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6172.1>,connection\_down}

2022-06-27 20:58:24.068 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:58:29.552 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.72.215.7":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:58:29.630 1 [info] <0.6175.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 20:58:29.631 1 [info] <0.6175.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.72.215.7">>,http\_connection => <0.6174.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 20:58:29.709 1 [error] <0.6174.1>@http2\_client:handle\_settings:822 gen\_server <0.6174.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:58:29.710 1 [error] <0.6174.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.6174.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 20:58:29.711 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.6175.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0,

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{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 20:58:29.711 1 [error] <0.6175.1>@Undefined:Undefined:Undefined
gen_server <0.6175.1> terminated with reason: connection_down
2022-06-27 20:58:29.711 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:58:29.711 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:58:29.712 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:58:29.712 1 [error] <0.6175.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6175.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:58:29.714 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6174.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6115>,socket_mon =>
#Ref<0.155928093.3973316611.207846>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6175.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 20:58:29.714 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6175.1>,connection_down}
2022-06-27 20:58:34.211 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:58:36.937 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:58:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:58:36.937 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:58:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:58:36.939 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5940,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:58:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:58:39.715 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:58:39.881 1 [info] <0.6178.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 20:58:39.883 1 [info] <0.6178.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.6177.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 20:58:40.039 1 [error] <0.6177.1>@http2_client:handle_settings:822
gen_server <0.6177.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:58:40.041 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6178.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 20:58:40.041 1 [error] <0.6177.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6177.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 20:58:40.041 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 20:58:40.042 1 [error] <0.6178.1>@Undefined:Undefined:Undefined
gen_server <0.6178.1> terminated with reason: connection_down
2022-06-27 20:58:40.042 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 20:58:40.042 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:58:40.042 1 [error] <0.6178.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6178.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 20:58:40.043 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6177.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {54, {<<":authority">>,<<"3.13.130.184">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.13.130.184",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6116>,socket\_mon => #Ref<0.155928093.3974365185.21627>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.6178.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}

2022-06-27 20:58:40.044 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6178.1>,connection\_down}

2022-06-27 20:58:44.351 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:58:50.045 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.38.70.101":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 20:58:54.498 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 20:59:01.781 1 [warning]

<0.1642.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/1123XhowMHgkrcrvSeWvaGLWmnnDw48R5FST59ZgxoPjCPxnEEeKW": [{"/



```
ip4/109.172.173.25/tcp/44158",timeout}]
2022-06-27 20:59:04.644 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:59:06.929 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:59:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:59:06.929 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:59:06
GMT">>,<<"txnb">> => 0}
2022-06-27 20:59:06.930 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5944,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:59:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:59:14.785 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:59:20.051 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}}]
2022-06-27 20:59:20.051 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 20:59:20.052 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6181.1>,timeout}
2022-06-27 20:59:20.052 1 [error] <0.6181.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6181.1> with 0 neighbours exited with reason: timeout
```

```
in gen_server:init_it/6 line 407
2022-06-27 20:59:24.925 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:59:30.053 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 20:59:35.095 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:59:36.933 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:59:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 20:59:36.934 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{439,5} got status #{<<"ackr">>
=> 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> =>
0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 20:59:36
GMT">>,<<"txnb">> => 0}
2022-06-27 20:59:36.935 1 [info]
<0.1814.0>@miner_lora_light:handle_json_data:{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5948,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 20:59:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 20:59:45.238 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 20:59:55.375 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:00:00.059 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4},
{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}},
{{miner_poc_grpc_client_statem,find_validator,0},
{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{{miner_poc_grpc_client_statem,setup,3},
{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
```

```
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:00:00.059 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:00:00.061 1 [error] <0.6208.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6208.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 21:00:00.061 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6208.1>,timeout}
2022-06-27 21:00:00.964 1 [info] <0.1636.0>@libp2p_peerbook:notify_peers:
{726,5} gossiping out 2 notify peers
2022-06-27 21:00:05.521 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:00:06.940 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:00:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:00:06.941 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:00:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:00:06.943 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5952,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:00:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:00:10.062 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:00:10.296 1 [info] <0.6217.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:00:10.297 1 [info] <0.6217.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.6216.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:00:10.526 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6217.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:00:10.526 1 [error] <0.6216.1>@http2_client:handle_settings:822
gen_server <0.6216.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:00:10.526 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:00:10.527 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:00:10.527 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:00:10.527 1 [error] <0.6216.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6216.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:00:10.528 1 [error] <0.6217.1>@Undefined:Undefined:Undefined
gen_server <0.6217.1> terminated with reason: connection_down
```

2022-06-27 21:00:10.528 1 [error] <0.6217.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.6217.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:00:10.529 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6216.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{53,  
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "54.70.239.5",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6124>,socket\_mon =>  
#Ref<0.155928093.3974365185.23950>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.6217.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 21:00:10.529 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6217.1>,connection\_down}

2022-06-27 21:00:15.671 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

2022-06-27 21:00:18.321 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/  
112hCknEyUz4EmCbSvxikm18zHxEcVPJt9U7L8ouxz9353d6hnUw" informed us of  
our observed address "/ip4/80.77.186.186/tcp/14101"

2022-06-27 21:00:20.530 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send

unary request via new connection to ip "18.228.158.83":

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 21:00:20.807 1 [info] <0.6236.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 21:00:20.808 1 [info] <0.6236.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"18.228.158.83">>,http_connection => <0.6235.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 21:00:21.079 1 [error] <0.6235.1>@http2_client:handle_settings:822
```

```
gen_server <0.6235.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 21:00:21.081 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.6236.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 21:00:21.082 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
```

```
2022-06-27 21:00:21.083 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 21:00:21.083 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 21:00:21.083 1 [error] <0.6235.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6235.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:00:21.084 1 [error] <0.6236.1>@Undefined:Undefined:Undefined
gen_server <0.6236.1> terminated with reason: connection_down
2022-06-27 21:00:21.084 1 [error] <0.6236.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6236.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:00:21.086 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6235.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6130>,socket_mon =>
#Ref<0.155928093.3974365185.24178>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6236.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 21:00:21.087 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6236.1>,connection_down} 2022-06-27
```

```
21:00:24.956 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"rxpk">> => [#<<"chan">> => 1,<<"codr">> =>
<<"4/5">>,<<"data">> =>
<<"AE4AAPB+1bNwtDIAACBX+YyqPmsih6o=">>,<<"datr">> =>
<<"SF7BW125">>,<<"foff">> => 7504,<<"freq">> => 868.3,<<"jver">> =>
1,<<"lsnr">> => -5.5,<<"mid">> => 8,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 1,<<"rssi">> => -108,<<"rssi_s">> => -114,<<"size">> => 23,<<"stat">> =>
1,<<"tmst">> => 2191043093}} from 12291671073248440251 on 35152
2022-06-27 21:00:25.815 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:00:31.086 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:00:31.249 1 [info] <0.6239.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:00:31.251 1 [info] <0.6239.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.6238.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,grpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:00:31.407 1 [error] <0.6238.1>@http2_client:handle_settings:822
gen_server <0.6238.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:00:31.409 1 [error] <0.6238.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6238.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:00:31.409 1 [error] <0.6239.1>@Undefined:Undefined:Undefined
gen_server <0.6239.1> terminated with reason: connection_down
2022-06-27 21:00:31.410 1 [error] <0.6239.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6239.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```



```
2022-06-27 21:00:31.411 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6239.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
```

```
2022-06-27 21:00:31.412 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 21:00:31.413 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 21:00:31.413 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 21:00:31.416 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6238.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},]}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6131>,socket_mon =>
#Ref<0.155928093.3974365185.24399>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6239.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:00:31.417 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6239.1>,connection_down}
2022-06-27 21:00:35.958 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:00:36.936 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:00:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:00:36.937 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:00:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:00:36.938 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5956,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:00:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:00:41.415 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:00:41.644 1 [info] <0.6242.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:00:41.645 1 [info] <0.6242.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.6241.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:00:41.867 1 [error] <0.6241.1>@http2_client:handle_settings:822
gen_server <0.6241.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:00:41.868 1 [error] <0.6241.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6241.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:00:41.870 1 [error] <0.6242.1>@Undefined:Undefined:Undefined
gen_server <0.6242.1> terminated with reason: connection_down
2022-06-27 21:00:41.871 1 [error] <0.6242.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6242.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:00:41.871 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6242.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:00:41.871 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:00:41.871 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 21:00:41.871 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:00:41.873 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6241.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6132>,socket_mon =>
#Ref<0.155928093.3974365185.24639>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6242.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:00:41.873 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6242.1>,connection_down}
2022-06-27 21:00:46.105 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:00:51.874 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:00:52.042 1 [info] <0.6245.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 21:00:52.043 1 [info] <0.6245.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.6244.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:00:52.204 1 [error] <0.6244.1>@http2_client:handle_settings:822
gen_server <0.6244.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:00:52.206 1 [error] <0.6244.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6244.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:00:52.206 1 [error] <0.6245.1>@Undefined:Undefined:Undefined
gen_server <0.6245.1> terminated with reason: connection_down
2022-06-27 21:00:52.207 1 [error] <0.6245.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6245.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:00:52.207 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6245.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:00:52.208 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 21:00:52.208 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 21:00:52.208 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 21:00:52.210 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6244.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,  
{<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "3.132.190.192",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6133>,socket\_mon =>  
#Ref<0.155928093.3973578754.127259>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.6245.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}]}

2022-06-27 21:00:52.210 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6245.1>,connection\_down}  
2022-06-27 21:00:56.252 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:01:02.211 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:01:02.450 1 [info] <0.6253.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:01:02.452 1 [info] <0.6253.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.6252.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:01:02.679 1 [error] <0.6252.1>@http2_client:handle_settings:822
gen_server <0.6252.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:01:02.679 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6253.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:01:02.680 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:01:02.680 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:01:02.680 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:01:02.680 1 [error] <0.6252.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6252.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:01:02.681 1 [error] <0.6253.1>@Undefined:Undefined:Undefined
gen_server <0.6253.1> terminated with reason: connection_down
2022-06-27 21:01:02.681 1 [error] <0.6253.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6253.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:01:02.682 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6252.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6134>,socket_mon =>
#Ref<0.155928093.3974365185.25123>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6253.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:01:02.682 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```



in setup state: Type: info, Msg: {'EXIT',<0.6253.1>,connection\_down} 2022-06-27 21:01:06.391 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:01:06.932 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #{"stat" => #{"ackr" => 0.0,<"dwnb"> => 0,<"rxfw"> => 0,<"rxnb"> => 0,<"rxok"> => 0,<"temp"> => 0.0,<"time"> => <"2022-06-27 21:01:06 GMT">,<"txnb"> => 0}} from 12291671073248440251 on 35152  
2022-06-27 21:01:06.933 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{"ackr" => 0.0,<"dwnb"> => 0,<"rxfw"> => 0,<"rxnb"> => 0,<"rxok"> => 0,<"temp"> => 0.0,<"time"> => <"2022-06-27 21:01:06 GMT">,<"txnb"> => 0}  
2022-06-27 21:01:06.934 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway #gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=5960,dropped=0,status=#{"ackr" => 0.0,<"dwnb"> => 0,<"rxfw"> => 0,<"rxnb"> => 0,<"rxok"> => 0,<"temp"> => 0.0,<"time"> => <"2022-06-27 21:01:06 GMT">,<"txnb"> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 21:01:12.683 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.251.77.229": {gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:01:12.921 1 [info] <0.6276.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 21:01:12.924 1 [info] <0.6276.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{"buffer => <<>>,compression => none,connection => #{"client => http2\_client,host => <"54.251.77.229">,http\_connection => <0.6275.1>,scheme => <"http">},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{},name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]],response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 21:01:13.158 1 [error] <0.6275.1>@http2\_client:handle\_settings:822 gen\_server <0.6275.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{"buffer => <<>>,client\_settings => #{"enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 21:01:13.162 1 [error] <0.6275.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.6275.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0,

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:01:13.162 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6276.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:01:13.163 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:01:13.163 1 [error] <0.6276.1>@Undefined:Undefined:Undefined
gen_server <0.6276.1> terminated with reason: connection_down
2022-06-27 21:01:13.164 1 [error] <0.6276.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6276.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:01:13.164 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:01:13.164 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:01:13.168 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6275.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
```

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{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6135>,socket_mon =>
#Ref<0.155928093.3973578754.127478>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6276.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}
2022-06-27 21:01:13.168 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6276.1>,connection_down}
2022-06-27 21:01:16.548 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:01:23.167 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:01:23.404 1 [info] <0.6283.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:01:23.407 1 [info] <0.6283.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.6280.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:01:23.645 1 [error] <0.6280.1>@http2_client:handle_settings:822
gen_server <0.6280.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

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<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:01:23.646 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6283.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:01:23.646 1 [error] <0.6280.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6280.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:01:23.646 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:01:23.647 1 [error] <0.6283.1>@Undefined:Undefined:Undefined
gen_server <0.6283.1> terminated with reason: connection_down
2022-06-27 21:01:23.647 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:01:23.647 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:01:23.647 1 [error] <0.6283.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6283.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:01:23.649 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6280.1>,{function_clause,
[{http2_client,handle_settings,
[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6136>,socket_mon =>
#Ref<0.155928093.3974365185.25659>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6283.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 21:01:23.649 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6283.1>,connection_down} 2022-06-27
21:01:26.711 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:01:33.650 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:01:33.733 1 [info] <0.6288.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:01:33.735 1 [info] <0.6288.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.6287.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 21:01:33.811 1 [error] <0.6287.1>@http2_client:handle_settings:822
gen_server <0.6287.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:01:33.812 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6288.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:01:33.812 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:01:33.812 1 [error] <0.6287.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6287.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:01:33.812 1 [error] <0.6288.1>@Undefined:Undefined:Undefined
gen_server <0.6288.1> terminated with reason: connection_down
2022-06-27 21:01:33.813 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:01:33.813 1 [error] <0.6288.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6288.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:01:33.813 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:01:33.814 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.6287.1>,{function_clause,
[{{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6137>,socket_mon =>
#Ref<0.155928093.3974365185.25930>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6288.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:01:33.815 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6288.1>,connection_down}
2022-06-27 21:01:36.857 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:01:36.942 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:01:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:01:36.943 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:01:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:01:36.946 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
```

```
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5964,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:01:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:01:43.816 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:01:46.998 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:01:57.148 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:02:06.943 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:02:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:02:06.944 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:02:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:02:06.945 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5967,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:02:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:02:07.314 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:02:13.820 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{"miner_poc_grpc_client_statem",send_grpc_unary_req,4,
[{"file","miner_poc_grpc_client_statem.erl"},{"line",719}]],
{"miner_poc_grpc_client_statem",find_validator,0,
[{"file","miner_poc_grpc_client_statem.erl"},{"line",467}]],
{"miner_poc_grpc_client_statem",setup,3,
[{"file","miner_poc_grpc_client_statem.erl"},{"line",221}]],
```



```
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:02:13.820 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:02:13.821 1 [error] <0.6290.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6290.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 21:02:13.821 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6290.1>,timeout}
2022-06-27 21:02:17.454 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:02:21.701 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1642.0>
2022-06-27 21:02:21.920 1 [notice] <0.6327.1>@libp2p_stream_relay:handle_info:
{146,5} client init bridge Server to Client {libp2p_relay_bridge_rs_pb,"/p2p/
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNvidMW72SydYmoiT2VXv","/
ip4/88.87.19.154/tcp/44158"}
2022-06-27 21:02:22.414 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112CLzuQGkt4NTQDM8ccXz3wwM1XnGBzUQaN89XA8o7QHAQjqG6n" informed
us of our observed address "/ip4/80.77.186.186/tcp/48352"
2022-06-27 21:02:22.516 1 [info] <0.6332.1>@libp2p_stream_proxy:init:{59,5} init
proxy server with {{connection,libp2p_yamux_stream,<0.6331.1>},
[],<0.1631.0>,blockchain_swarm}}
2022-06-27 21:02:22.629 1 [info]
<0.6332.1>@libp2p_stream_proxy:handle_server_data:{131,5} server got dial back
request {libp2p_proxy_dial_back_pb}
2022-06-27 21:02:23.822 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:02:23.907 1 [info] <0.6337.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:02:23.908 1 [info] <0.6337.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.6336.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:02:23.992 1 [error] <0.6336.1>@http2_client:handle_settings:822
gen_server <0.6336.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:02:23.994 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6337.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:02:23.994 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:02:23.994 1 [error] <0.6336.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6336.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:02:23.995 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:02:23.995 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:02:23.995 1 [error] <0.6337.1>@Undefined:Undefined:Undefined
gen_server <0.6337.1> terminated with reason: connection_down
2022-06-27 21:02:23.995 1 [error] <0.6337.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6337.1> with 0 neighbours exited with reason:
```

connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 21:02:23.997 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6336.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "52.210.14.128",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6141>,socket\_mon =>  
#Ref<0.155928093.3974365185.27427>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.6337.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 21:02:23.998 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6337.1>,connection\_down}  
2022-06-27 21:02:27.581 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:02:33.998 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.89.130.114":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:02:34.227 1 [info] <0.6344.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 21:02:34.228 1 [info] <0.6344.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>

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none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.6343.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:02:34.451 1 [error] <0.6343.1>@http2_client:handle_settings:822
gen_server <0.6343.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:02:34.452 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6344.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:02:34.453 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:02:34.453 1 [error] <0.6343.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6343.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:02:34.453 1 [error] <0.6344.1>@Undefined:Undefined:Undefined
gen_server <0.6344.1> terminated with reason: connection_down
2022-06-27 21:02:34.453 1 [error] <0.6344.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6344.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

2022-06-27 21:02:34.453 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 21:02:34.454 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:02:34.455 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6343.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"52.89.130.114">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "52.89.130.114",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6142>,socket\_mon => #Ref<0.155928093.3974365185.27706>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.6344.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 21:02:34.456 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6344.1>,connection\_down}

2022-06-27 21:02:36.942 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:02:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

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2022-06-27 21:02:36.943 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:02:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:02:36.944 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5971,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:02:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:02:37.718 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:02:44.456 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:02:44.625 1 [info] <0.6347.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:02:44.626 1 [info] <0.6347.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.6346.1>,<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}<>>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:02:44.783 1 [error] <0.6346.1>@http2_client:handle_settings:822
gen_server <0.6346.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:02:44.785 1 [error] <0.6346.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6346.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:02:44.785 1 [error] <0.6347.1>@Undefined:Undefined:Undefined
gen_server <0.6347.1> terminated with reason: connection_down
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2022-06-27 21:02:44.786 1 [error] <0.6347.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6347.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:02:44.786 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6347.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:02:44.786 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:02:44.787 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:02:44.787 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:02:44.788 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6346.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6143>,socket_mon =>
#Ref<0.155928093.3974365185.27944>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6347.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:02:44.789 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6347.1>,connection_down}
2022-06-27 21:02:46.927 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 0,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"AE4AAPB+1bNwtDIAACBX+Yw1v6iKjCI=">>,<<"datr">> =>
<<"SF7BW125">>,<<"foff">> => 7378,<<"freq">> => 868.1,<<"jver">> =>
1,<<"lsnr">> => -5.0,<<"mid">> => 8,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 1,<<"rssi">> => -109,<<"rssi_s">> => -114,<<"size">> => 23,<<"stat">> =>
1,<<"tmst">> => 2333016545]]} from 12291671073248440251 on 35152
2022-06-27 21:02:47.851 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:02:54.790 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:02:54.866 1 [info] <0.6350.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:02:54.869 1 [info] <0.6350.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.6349.1>,>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:02:54.933 1 [error] <0.6349.1>@http2_client:handle_settings:822
```



```
gen_server <0.6349.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:02:54.935 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6350.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:02:54.935 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:02:54.935 1 [error] <0.6349.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6349.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:02:54.935 1 [error] <0.6350.1>@Undefined:Undefined:Undefined
gen_server <0.6350.1> terminated with reason: connection_down
2022-06-27 21:02:54.936 1 [error] <0.6350.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6350.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:02:54.936 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:02:54.936 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:02:54.937 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6349.1>,{function_clause,
```

```
{http2_client,handle_settings,
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6144>,socket_mon =>
#Ref<0.155928093.3974365185.28162>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6350.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:02:54.938 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6350.1>,connection_down}
2022-06-27 21:02:58.008 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:03:01.533 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 0,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAGMHIG+ADeoALFpsf13/
dGNjhQJiRlhBrllzrqAXb0U5KBGrdN4L6AfJsfCddppiA==">>,<<"datr">> =>
<<"SF12BW125">>,<<"foff">> => -152,<<"freq">> => 868.1,<<"jver">> =>
1,<<"lsnr">> => -10.2,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 1,<<"rssi">> => -110,<<"rssi">> => -120,<<"size">> => 52,<<"stat">> =>
1,<<"tmst">> => 2347598013}}} from 12291671073248440251 on 35152
2022-06-27 21:03:04.939 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
```

```
{gateway_validators_req_v1_pb,1}
2022-06-27 21:03:05.210 1 [info] <0.6353.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:03:05.211 1 [info] <0.6353.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.6352.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:03:05.472 1 [error] <0.6352.1>@http2_client:handle_settings:822
gen_server <0.6352.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:03:05.476 1 [error] <0.6352.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6352.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:03:05.476 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6353.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:03:05.476 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 21:03:05.476 1 [error] <0.6353.1>@Undefined:Undefined:Undefined  
gen\_server <0.6353.1> terminated with reason: connection\_down

2022-06-27 21:03:05.477 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 21:03:05.477 1 [error] <0.6353.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.6353.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:03:05.478 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 21:03:05.481 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6352.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"18.228.158.83">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}]}},host => "18.228.158.83",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6145>,socket\_mon =>  
#Ref<0.155928093.3974365185.28355>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.6353.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}]}

2022-06-27 21:03:05.481 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6353.1>,connection\_down} 2022-06-27  
21:03:06.944 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5}

```
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 2,<<"rxnb">> => 2,<<"rxok">> => 2,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:03:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:03:06.945 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
2,<<"rxnb">> => 2,<<"rxok">> => 2,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:03:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:03:06.946 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5975,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 2,<<"rxnb">> => 2,<<"rxok">> => 2,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:03:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:03:08.145 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:03:15.480 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:03:15.812 1 [info] <0.6361.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:03:15.813 1 [info] <0.6361.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.6360.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:03:16.142 1 [error] <0.6360.1>@http2_client:handle_settings:822
gen_server <0.6360.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:03:16.144 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6361.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:03:16.144 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:03:16.144 1 [error] <0.6360.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6360.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:03:16.144 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:03:16.145 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:03:16.145 1 [error] <0.6361.1>@Undefined:Undefined:Undefined
gen_server <0.6361.1> terminated with reason: connection_down
2022-06-27 21:03:16.146 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6360.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6146>,socket_mon =>
#Ref<0.155928093.3974365185.28522>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6361.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 21:03:16.146 1 [error] <0.6361.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6361.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:03:16.146 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6361.1>,connection_down}
2022-06-27 21:03:18.284 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:03:26.146 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:03:26.481 1 [info] <0.6385.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:03:26.483 1 [info] <0.6385.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.6384.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:03:26.816 1 [error] <0.6384.1>@http2_client:handle_settings:822
gen_server <0.6384.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:03:26.818 1 [error] <0.6384.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6384.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:03:26.820 1 [error] <0.6385.1>@Undefined:Undefined:Undefined
gen_server <0.6385.1> terminated with reason: connection_down
2022-06-27 21:03:26.821 1 [error] <0.6385.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6385.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:03:26.822 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6385.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:03:26.823 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:03:26.824 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:03:26.824 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:03:26.827 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6384.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```



```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6147>,socket_mon =>
#Ref<0.155928093.3974365185.28819>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6385.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:03:26.828 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6385.1>,connection_down}
2022-06-27 21:03:28.441 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:03:36.827 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:03:36.940 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:03:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:03:36.940 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:03:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:03:36.941 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5979,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:03:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:03:38.169 1 [info] <0.6393.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:03:38.170 1 [info] <0.6393.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.6392.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:03:38.498 1 [error] <0.6392.1>@http2_client:handle_settings:822
gen_server <0.6392.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:03:38.499 1 [error] <0.6392.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6392.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:03:38.500 1 [error] <0.6393.1>@Undefined:Undefined:Undefined
gen_server <0.6393.1> terminated with reason: connection_down
2022-06-27 21:03:38.500 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6393.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:03:38.500 1 [error] <0.6393.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6393.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:03:38.501 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:03:38.501 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:03:38.501 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:03:38.503 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6392.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6148>,socket_mon =>
#Ref<0.155928093.3974365185.29084>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6393.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}}
```

```
2022-06-27 21:03:38.503 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6393.1>,connection_down}
2022-06-27 21:03:38.584 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:03:48.503 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:03:48.714 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:03:48.732 1 [info] <0.6396.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:03:48.734 1 [info] <0.6396.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.6395.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:03:48.954 1 [error] <0.6395.1>@http2_client:handle_settings:822
gen_server <0.6395.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:03:48.955 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6396.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:03:48.955 1 [error] <0.6395.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6395.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:03:48.956 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:03:48.956 1 [error] <0.6396.1>@Undefined:Undefined:Undefined
gen_server <0.6396.1> terminated with reason: connection_down
2022-06-27 21:03:48.956 1 [error] <0.6396.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6396.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:03:48.956 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:03:48.956 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:03:48.958 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6395.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6149>,socket_mon =>
#Ref<0.155928093.3974365185.29278>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6396.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 21:03:48.959 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6396.1>,connection_down}
2022-06-27 21:03:58.861 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:03:58.959 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:03:59.191 1 [info] <0.6399.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:03:59.192 1 [info] <0.6399.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.6398.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:03:59.413 1 [error] <0.6398.1>@http2_client:handle_settings:822
gen_server <0.6398.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:03:59.415 1 [error] <0.6398.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6398.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:03:59.416 1 [error] <0.6399.1>@Undefined:Undefined:Undefined
gen_server <0.6399.1> terminated with reason: connection_down
```

```
2022-06-27 21:03:59.416 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6399.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:03:59.416 1 [error] <0.6399.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6399.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:03:59.416 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:03:59.417 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:03:59.418 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:03:59.421 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6398.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.89.130.114">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6150>,socket_mon =>
#Ref<0.155928093.3974365185.29487>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6399.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:03:59.422 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6399.1>,connection_down}
2022-06-27 21:04:06.001 1 [notice]
<0.6416.1>@libp2p_multistream_server:handle_info:{108,13} Failed to handshake
client "/ip4/192.168.5.233/tcp/51304": closed
2022-06-27 21:04:06.946 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:04:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:04:06.946 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:04:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:04:06.947 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5983,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:04:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:04:09.015 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:04:09.421 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:04:09.658 1 [info] <0.6419.1>@grpc_client_stream_custom:init:
```



```
{131,9} init stream for RPC validators and type unary
2022-06-27 21:04:09.659 1 [info] <0.6419.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.6418.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:04:09.892 1 [error] <0.6418.1>@http2_client:handle_settings:822
gen_server <0.6418.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:04:09.896 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6419.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:04:09.896 1 [error] <0.6418.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6418.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:04:09.896 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:04:09.896 1 [error] <0.6419.1>@Undefined:Undefined:Undefined
gen_server <0.6419.1> terminated with reason: connection_down
```

2022-06-27 21:04:09.897 1 [error] <0.6419.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.6419.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:04:09.898 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 21:04:09.898 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 21:04:09.901 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6418.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "13.215.75.202",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6157>,socket\_mon =>  
#Ref<0.155928093.3974365185.29749>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.6419.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}]}

2022-06-27 21:04:09.902 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6419.1>,connection\_down}

2022-06-27 21:04:12.654 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/  
112fBd1pVpvKLMxeiCf4uC7yfz1RVLfbXhHNPBUodAmEh7bp75oL" informed us of

```
our observed address "/ip4/80.77.186.186/tcp/39206"
2022-06-27 21:04:19.158 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:04:19.901 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:04:20.063 1 [info] <0.6443.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:04:20.065 1 [info] <0.6443.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.6442.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:04:20.221 1 [error] <0.6442.1>@http2_client:handle_settings:822
gen_server <0.6442.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:04:20.225 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6443.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:04:20.225 1 [error] <0.6442.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6442.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:04:20.225 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:04:20.225 1 [error] <0.6443.1>@Undefined:Undefined:Undefined
gen_server <0.6443.1> terminated with reason: connection_down
2022-06-27 21:04:20.226 1 [error] <0.6443.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6443.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:04:20.226 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:04:20.226 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:04:20.231 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6442.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6163>,socket_mon =>
#Ref<0.155928093.3974365185.30020>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6443.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 21:04:20.232 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6443.1>,connection_down}
2022-06-27 21:04:29.304 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:04:30.229 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:04:30.501 1 [info] <0.6467.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:04:30.502 1 [info] <0.6467.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.6466.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:04:30.769 1 [error] <0.6466.1>@http2_client:handle_settings:822
gen_server <0.6466.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:04:30.773 1 [error] <0.6466.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6466.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:04:30.773 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6467.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:04:30.774 1 [error] <0.6467.1>@Undefined:Undefined:Undefined
gen_server <0.6467.1> terminated with reason: connection_down
2022-06-27 21:04:30.774 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:04:30.774 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:04:30.775 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:04:30.776 1 [error] <0.6467.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6467.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:04:30.777 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6466.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6164>,socket_mon =>
#Ref<0.155928093.3974365185.30296>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6467.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 21:04:30.778 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6467.1>,connection_down}
2022-06-27 21:04:36.942 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:04:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:04:36.942 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:04:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:04:36.944 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5987,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:04:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:04:39.441 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:04:40.776 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:04:41.109 1 [info] <0.6475.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:04:41.111 1 [info] <0.6475.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.6474.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:04:41.439 1 [error] <0.6474.1>@http2_client:handle_settings:822
gen_server <0.6474.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:04:41.441 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6475.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:04:41.442 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:04:41.442 1 [error] <0.6474.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6474.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:04:41.442 1 [error] <0.6475.1>@Undefined:Undefined:Undefined
gen_server <0.6475.1> terminated with reason: connection_down
2022-06-27 21:04:41.442 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:04:41.442 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:04:41.442 1 [error] <0.6475.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6475.1> with 0 neighbours exited with reason:
```



```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:04:41.444 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6474.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6165>,socket_mon =>
#Ref<0.155928093.3974365185.30555>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6475.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:04:41.444 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6475.1>,connection_down}
2022-06-27 21:04:49.588 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:04:51.445 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:04:51.717 1 [info] <0.6478.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:04:51.719 1 [info] <0.6478.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.6477.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:04:51.985 1 [error] <0.6477.1>@http2_client:handle_settings:822
gen_server <0.6477.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:04:51.987 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6478.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:04:51.988 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:04:51.988 1 [error] <0.6477.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6477.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:04:51.988 1 [error] <0.6478.1>@Undefined:Undefined:Undefined
gen_server <0.6478.1> terminated with reason: connection_down
2022-06-27 21:04:51.988 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

2022-06-27 21:04:51.988 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:04:51.989 1 [error] <0.6478.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.6478.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:04:51.990 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6477.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"13.209.94.225">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "13.209.94.225",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6166>,socket\_mon => #Ref<0.155928093.3974365185.30666>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.6478.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}]},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}

2022-06-27 21:04:51.990 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6478.1>,connection\_down} 2022-06-27 21:04:59.728 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:05:01.991 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.228.115.118": {gateway\_validators\_req\_v1\_pb,1}

```
2022-06-27 21:05:02.268 1 [info] <0.6482.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:05:02.270 1 [info] <0.6482.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.6481.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:05:02.535 1 [error] <0.6481.1>@http2_client:handle_settings:822
gen_server <0.6481.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:05:02.536 1 [error] <0.6481.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6481.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:05:02.536 1 [error] <0.6482.1>@Undefined:Undefined:Undefined
gen_server <0.6482.1> terminated with reason: connection_down
2022-06-27 21:05:02.537 1 [error] <0.6482.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6482.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:05:02.538 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6482.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 21:05:02.538 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:05:02.538 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:05:02.538 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:05:02.539 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6481.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6167>,socket_mon =>
#Ref<0.155928093.3974365185.30927>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6482.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:05:02.540 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6482.1>,connection_down} 2022-06-27
21:05:06.944 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
```

```
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:05:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:05:06.944 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:05:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:05:06.945 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5991,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:05:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:05:09.884 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:05:12.541 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:05:12.779 1 [info] <0.6486.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:05:12.781 1 [info] <0.6486.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,>,http_connection => <0.6485.1>,>,scheme =>
<<"http">>,>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,>,rpc =>
validators,>,service => 'helium.gateway',state => idle,>,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:05:13.011 1 [error] <0.6485.1>@http2_client:handle_settings:822
gen_server <0.6485.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:05:13.013 1 [error] <0.6485.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6485.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:05:13.014 1 [error] <0.6486.1>@Undefined:Undefined:Undefined
gen_server <0.6486.1> terminated with reason: connection_down
2022-06-27 21:05:13.014 1 [error] <0.6486.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6486.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:05:13.016 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6486.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:05:13.017 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:05:13.018 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:05:13.019 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:05:13.022 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6485.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"52.220.227.216">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6168>,socket_mon =>
#Ref<0.155928093.3974365185.31006>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6486.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:05:13.024 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6486.1>,connection_down} 2022-06-27
21:05:20.021 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:05:23.021 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:05:23.350 1 [info] <0.6497.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:05:23.351 1 [info] <0.6497.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.6495.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:05:23.673 1 [error] <0.6495.1>@http2_client:handle_settings:822
gen_server <0.6495.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:05:23.674 1 [error] <0.6495.1>@http2_client:handle_settings:822
```



```
CRASH REPORT Process <0.6495.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:05:23.674 1 [error] <0.6497.1>@Undefined:Undefined:Undefined
gen_server <0.6497.1> terminated with reason: connection_down
2022-06-27 21:05:23.675 1 [error] <0.6497.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6497.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:05:23.675 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6497.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:05:23.676 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:05:23.676 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:05:23.676 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:05:23.677 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6495.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {54,
{<<":authority">>,<<"3.24.161.210">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6169>,socket_mon =>
#Ref<0.155928093.3974365185.31113>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.6497.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 21:05:23.678 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6497.1>,connection_down}
2022-06-27 21:05:30.171 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:05:33.679 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:05:33.912 1 [info] <0.6535.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:05:33.913 1 [info] <0.6535.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.6534.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:05:34.139 1 [error] <0.6534.1>@http2_client:handle_settings:822
gen_server <0.6534.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:05:34.140 1 [error] <0.6534.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6534.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:05:34.140 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6535.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:05:34.141 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:05:34.141 1 [error] <0.6535.1>@Undefined:Undefined:Undefined
gen_server <0.6535.1> terminated with reason: connection_down
2022-06-27 21:05:34.141 1 [error] <0.6535.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6535.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:05:34.141 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:05:34.142 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:05:34.144 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6534.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6175>,socket_mon =>
#Ref<0.155928093.3973054468.221505>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6535.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:05:34.145 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6535.1>,connection_down}
2022-06-27 21:05:36.953 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:05:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:05:36.954 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:05:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:05:36.956 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5995,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:05:36 GMT">>,<<"txnb">> =>
```

```
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:05:40.314 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:05:44.144 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:05:44.239 1 [info] <0.6539.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:05:44.240 1 [info] <0.6539.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.6538.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:05:44.331 1 [error] <0.6538.1>@http2_client:handle_settings:822
gen_server <0.6538.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:05:44.331 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6539.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:05:44.331 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 21:05:44.331 1 [error] <0.6538.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6538.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:05:44.332 1 [error] <0.6539.1>@Undefined:Undefined:Undefined
gen_server <0.6539.1> terminated with reason: connection_down
2022-06-27 21:05:44.332 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:05:44.332 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:05:44.332 1 [error] <0.6539.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6539.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:05:44.333 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6538.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6176>,socket_mon =>
#Ref<0.155928093.3973054468.221519>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6539.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:05:44.334 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6539.1>,connection_down}
2022-06-27 21:05:50.455 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:05:54.335 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:05:54.504 1 [info] <0.6546.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:05:54.506 1 [info] <0.6546.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.6545.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:05:54.664 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6546.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:05:54.664 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 21:05:54.664 1 [error] <0.6545.1>@http2_client:handle_settings:822
gen_server <0.6545.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:05:54.664 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:05:54.665 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:05:54.665 1 [error] <0.6545.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6545.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:05:54.665 1 [error] <0.6546.1>@Undefined:Undefined:Undefined
gen_server <0.6546.1> terminated with reason: connection_down
2022-06-27 21:05:54.665 1 [error] <0.6546.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6546.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:05:54.666 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6545.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6177>,socket_mon =>
#Ref<0.155928093.3973054468.221536>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6546.1>,server_window => 65528,state =>
```



```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>]],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>]],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}}
2022-06-27 21:05:54.666 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6546.1>,connection_down}
2022-06-27 21:06:00.588 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:06:04.666 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:06:04.829 1 [info] <0.6549.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:06:04.831 1 [info] <0.6549.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.6548.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:06:05.005 1 [error] <0.6548.1>@http2_client:handle_settings:822
gen_server <0.6548.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:06:05.006 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6549.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
{file,"miner_poc_grpc_client_statem.erl"},{line,721}}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 21:06:05.007 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:06:05.007 1 [error] <0.6548.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6548.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:06:05.007 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:06:05.008 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:06:05.008 1 [error] <0.6549.1>@Undefined:Undefined:Undefined
gen_server <0.6549.1> terminated with reason: connection_down
2022-06-27 21:06:05.009 1 [error] <0.6549.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6549.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:06:05.011 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6548.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6178>,socket_mon =>
#Ref<0.155928093.3973054468.221553>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6549.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:06:05.012 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6549.1>,connection_down}
2022-06-27 21:06:06.946 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:06:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:06:06.946 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:06:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:06:06.948 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=5999,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:06:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:06:10.751 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:06:15.011 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:06:15.245 1 [info] <0.6552.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:06:15.247 1 [info] <0.6552.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.6551.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:06:15.476 1 [error] <0.6551.1>@http2_client:handle_settings:822
gen_server <0.6551.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:06:15.475 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6552.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:06:15.476 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:06:15.478 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:06:15.478 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:06:15.478 1 [error] <0.6551.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6551.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:06:15.478 1 [error] <0.6552.1>@Undefined:Undefined:Undefined
gen_server <0.6552.1> terminated with reason: connection_down
2022-06-27 21:06:15.479 1 [error] <0.6552.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6552.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:06:15.481 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6551.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{55,
{<<":authority">>,<<"54.251.77.229">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6179>,socket_mon =>
#Ref<0.155928093.3973578754.130880>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6552.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:06:15.482 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6552.1>,connection_down} 2022-06-27
21:06:20.892 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:06:25.481 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 21:06:25.815 1 [info] <0.6560.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:06:25.817 1 [info] <0.6560.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.6559.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:06:26.155 1 [error] <0.6559.1>@http2_client:handle_settings:822
gen_server <0.6559.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:06:26.156 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6560.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:06:26.157 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:06:26.158 1 [error] <0.6559.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6559.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:06:26.159 1 [error] <0.6560.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.6560.1> terminated with reason: connection_down
2022-06-27 21:06:26.160 1 [error] <0.6560.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6560.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:06:26.160 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:06:26.160 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:06:26.164 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6559.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6180>,socket_mon =>
#Ref<0.155928093.3974365185.31680>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6560.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}}
2022-06-27 21:06:26.165 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6560.1>,connection_down}
2022-06-27 21:06:31.038 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833  
2022-06-27 21:06:33.643 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/11JfPYnCA35P4fcXf79jRVVHtF2WkznbvCWskiv37et6z6QsHRW" informed us of our observed address "/ip4/80.77.186.186/tcp/29603"  
2022-06-27 21:06:36.157 1 [warning]  
<0.1645.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/ip4/18.141.125.188/tcp/443": {exit,{normal,{gen\_server,call,[<0.5882.1>,open]}}}  
2022-06-27 21:06:36.162 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.72.215.7":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:06:36.325 1 [info] <0.6602.1>@grpc\_client\_stream\_custom:init:{131,9} init stream for RPC validators and type unary  
2022-06-27 21:06:36.325 1 [info] <0.6602.1>@grpc\_client\_stream\_custom:init:{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.72.215.7">>,http\_connection => <0.6601.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 21:06:36.406 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:{283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.6602.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 21:06:36.407 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}  
2022-06-27 21:06:36.408 1 [error] <0.6601.1>@http2\_client:handle\_settings:822



```
gen_server <0.6601.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:06:36.408 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:06:36.408 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:06:36.409 1 [error] <0.6601.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6601.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:06:36.410 1 [error] <0.6602.1>@Undefined:Undefined:Undefined
gen_server <0.6602.1> terminated with reason: connection_down
2022-06-27 21:06:36.412 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6601.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6186>,socket_mon =>
#Ref<0.155928093.3974365185.31935>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6602.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:06:36.412 1 [error] <0.6602.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6602.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:06:36.412 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6602.1>,connection_down} 2022-06-27
21:06:36.949 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:06:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:06:36.950 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:06:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:06:36.951 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6003,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:06:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:06:41.181 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:06:46.411 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:06:46.646 1 [info] <0.6606.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:06:46.648 1 [info] <0.6606.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.6605.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

miner\_poc\_grpc\_client\_handler

2022-06-27 21:06:46.870 1 [error] <0.6605.1>@http2\_client:handle\_settings:822  
gen\_server <0.6605.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:06:46.873 1 [error] <0.6605.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.6605.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:06:46.873 1 [error] <0.6606.1>@Undefined:Undefined:Undefined  
gen\_server <0.6606.1> terminated with reason: connection\_down

2022-06-27 21:06:46.873 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.6606.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},

{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},

{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}

2022-06-27 21:06:46.873 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 21:06:46.874 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 21:06:46.874 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 21:06:46.874 1 [error] <0.6606.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.6606.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:06:46.876 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6605.1>,{function_clause,
[ {http2_client,handle_settings,
[ [],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6187>,socket_mon =>
#Ref<0.155928093.3973578754.131784>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6606.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:06:46.878 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6606.1>,connection_down} 2022-06-27
21:06:51.321 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:06:56.877 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:06:57.077 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
1197AexoUhZozLqpagTGw4959faXWcHT699KsVEaoLwdNpoq7Ub" informed us of
our observed address "/ip4/80.77.186.186/tcp/60649"
2022-06-27 21:07:01.468 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 21:07:06.952 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:07:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:07:06.953 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:07:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:07:06.955 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6007,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:07:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:07:11.614 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:07:21.702 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1643.0>
2022-06-27 21:07:21.748 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:07:26.882 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}}]
2022-06-27 21:07:26.882 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:07:26.883 1 [error] <0.6623.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6623.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 21:07:26.883 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6623.1>,timeout}  
2022-06-27 21:07:31.911 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:07:36.884 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.38.70.101":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:07:36.949 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:07:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 21:07:36.950 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:07:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 21:07:36.952 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6011,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:07:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 21:07:42.041 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:07:52.175 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:08:02.325 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:08:06.889 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}}],

```
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:08:06.890 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:08:06.892 1 [error] <0.6642.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6642.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 21:08:06.892 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6642.1>,timeout}
2022-06-27 21:08:06.958 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:08:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:08:06.959 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:08:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:08:06.960 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6015,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:08:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:08:12.472 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:08:16.893 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:08:18.156 1 [info] <0.6670.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:08:18.159 1 [info] <0.6670.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.6669.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:08:18.389 1 [error] <0.6669.1>@http2_client:handle_settings:822
gen_server <0.6669.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:08:18.391 1 [error] <0.6669.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6669.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:08:18.392 1 [error] <0.6670.1>@Undefined:Undefined:Undefined
gen_server <0.6670.1> terminated with reason: connection_down
2022-06-27 21:08:18.393 1 [error] <0.6670.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6670.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:08:18.395 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6670.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:08:18.396 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:08:18.396 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:08:18.397 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```



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validator failed: {error,req_failed}
2022-06-27 21:08:18.400 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6669.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6197>,socket_mon =>
#Ref<0.155928093.3974365185.32957>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6670.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:08:18.401 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6670.1>,connection_down} 2022-06-27
21:08:22.618 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:08:28.400 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:08:28.723 1 [info] <0.6674.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:08:28.724 1 [info] <0.6674.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"13.237.155.172">>,http_connection => <0.6672.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:08:29.044 1 [error] <0.6672.1>@http2_client:handle_settings:822
gen_server <0.6672.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:08:29.046 1 [error] <0.6672.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6672.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:08:29.046 1 [error] <0.6674.1>@Undefined:Undefined:Undefined
gen_server <0.6674.1> terminated with reason: connection_down
2022-06-27 21:08:29.047 1 [error] <0.6674.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6674.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:08:29.047 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6674.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:08:29.047 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:08:29.048 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 21:08:29.048 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 21:08:29.049 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6672.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{56, {<<":authority">>,<<"13.237.155.172">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "13.237.155.172",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6198>,socket\_mon => #Ref<0.155928093.3974365185.33160>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.6674.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}]  
2022-06-27 21:08:29.050 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6674.1>,connection\_down} 2022-06-27 21:08:32.751 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:08:36.960 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:08:36 GMT">>,<<"txnb">> => 0}} from

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12291671073248440251 on 35152
2022-06-27 21:08:36.960 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:08:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:08:36.962 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6019,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:08:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:08:39.051 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:08:39.325 1 [info] <0.6683.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:08:39.326 1 [info] <0.6683.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.6681.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:08:39.589 1 [error] <0.6681.1>@http2_client:handle_settings:822
gen_server <0.6681.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:08:39.590 1 [error] <0.6681.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6681.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:08:39.591 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6683.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:08:39.591 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:08:39.591 1 [error] <0.6683.1>@Undefined:Undefined:Undefined
gen_server <0.6683.1> terminated with reason: connection_down
2022-06-27 21:08:39.592 1 [error] <0.6683.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6683.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:08:39.592 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:08:39.592 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:08:39.593 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6681.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6199>,socket_mon =>
```

```
#Ref<0.155928093.3974365185.33396>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6683.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}]
2022-06-27 21:08:39.594 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6683.1>,connection_down}
2022-06-27 21:08:42.895 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:08:49.595 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:08:49.761 1 [info] <0.6704.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:08:49.762 1 [info] <0.6704.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.6703.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:08:49.924 1 [error] <0.6703.1>@http2_client:handle_settings:822
gen_server <0.6703.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:08:49.926 1 [error] <0.6703.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6703.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:08:49.927 1 [error] <0.6704.1>@Undefined:Undefined:Undefined
gen_server <0.6704.1> terminated with reason: connection_down
2022-06-27 21:08:49.927 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6704.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:08:49.927 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:08:49.927 1 [error] <0.6704.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6704.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:08:49.928 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:08:49.928 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:08:49.930 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6703.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6200>,socket_mon =>
#Ref<0.155928093.3974365185.33647>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6704.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 21:08:49.931 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6704.1>,connection_down}
2022-06-27 21:08:53.038 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:08:59.931 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:09:00.167 1 [info] <0.6708.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:09:00.168 1 [info] <0.6708.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.6707.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:09:00.398 1 [error] <0.6707.1>@http2_client:handle_settings:822
gen_server <0.6707.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```



2022-06-27 21:09:00.400 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.6708.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]}

2022-06-27 21:09:00.400 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 21:09:00.400 1 [error] <0.6707.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.6707.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 21:09:00.401 1 [error] <0.6708.1>@Undefined:Undefined:Undefined  
gen\_server <0.6708.1> terminated with reason: connection\_down

2022-06-27 21:09:00.401 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 21:09:00.401 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 21:09:00.401 1 [error] <0.6708.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.6708.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:09:00.402 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6707.1>,{function\_clause,  
[{"http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6201>,socket_mon =>
#Ref<0.155928093.3974365185.33849>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6708.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:09:00.403 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6708.1>,connection_down}
2022-06-27 21:09:03.178 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:09:06.962 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:09:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:09:06.963 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:09:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:09:06.965 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6023,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:09:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
```

```
2022-06-27 21:09:10.404 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:09:10.738 1 [info] <0.6720.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:09:10.739 1 [info] <0.6720.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.6719.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:09:11.062 1 [error] <0.6719.1>@http2_client:handle_settings:822
gen_server <0.6719.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:09:11.063 1 [error] <0.6719.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6719.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:09:11.063 1 [error] <0.6720.1>@Undefined:Undefined:Undefined
gen_server <0.6720.1> terminated with reason: connection_down
2022-06-27 21:09:11.064 1 [error] <0.6720.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6720.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:09:11.065 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6720.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}],
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:09:11.065 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:09:11.066 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:09:11.066 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:09:11.067 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6719.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{56,
{<<":authority">>,<<"13.237.155.172">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6202>,socket_mon =>
#Ref<0.155928093.3974365185.34106>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6720.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:09:11.068 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6720.1>,connection_down}
2022-06-27 21:09:13.328 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:09:21.069 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:09:21.231 1 [info] <0.6724.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:09:21.233 1 [info] <0.6724.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.6722.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:09:21.438 1 [error] <0.6722.1>@http2_client:handle_settings:822
gen_server <0.6722.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:09:21.439 1 [error] <0.6722.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6722.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:09:21.439 1 [error] <0.6724.1>@Undefined:Undefined:Undefined
gen_server <0.6724.1> terminated with reason: connection_down
2022-06-27 21:09:21.440 1 [error] <0.6724.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6724.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:09:21.441 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6724.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl",{line,226}}]}]
2022-06-27 21:09:21.441 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:09:21.441 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:09:21.441 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:09:21.443 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6722.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"3.137.92.200">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6203>,socket_mon =>
#Ref<0.155928093.3973578754.134574>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6724.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[[file,"http2_client.erl",{line,822}}],
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:09:21.444 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6724.1>,connection_down}
2022-06-27 21:09:23.469 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:09:31.444 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:09:31.676 1 [info] <0.6727.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:09:31.678 1 [info] <0.6727.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.6726.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:09:31.900 1 [error] <0.6726.1>@http2_client:handle_settings:822
gen_server <0.6726.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:09:31.902 1 [error] <0.6726.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6726.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:09:31.902 1 [error] <0.6727.1>@Undefined:Undefined:Undefined
gen_server <0.6727.1> terminated with reason: connection_down
2022-06-27 21:09:31.903 1 [error] <0.6727.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6727.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:09:31.907 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6727.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:09:31.908 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:09:31.909 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:09:31.909 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:09:31.914 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6726.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6204>,socket_mon =>
#Ref<0.155928093.3974365185.34475>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```



```
1,owner => <0.6727.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}}
2022-06-27 21:09:31.915 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6727.1>,connection_down}
2022-06-27 21:09:33.611 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:09:36.963 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:09:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:09:36.964 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:09:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:09:36.965 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6027,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:09:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:09:41.912 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:09:42.002 1 [info] <0.6735.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:09:42.003 1 [info] <0.6735.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.6734.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:09:42.089 1 [error] <0.6734.1>@http2_client:handle_settings:822
gen_server <0.6734.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:09:42.091 1 [error] <0.6734.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6734.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:09:42.091 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6735.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:09:42.091 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:09:42.092 1 [error] <0.6735.1>@Undefined:Undefined:Undefined
gen_server <0.6735.1> terminated with reason: connection_down
2022-06-27 21:09:42.092 1 [error] <0.6735.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6735.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:09:42.092 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:09:42.093 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 21:09:42.094 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6734.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,282,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{52, {<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]}],host => "52.30.1.39",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6205>,socket\_mon => #Ref<0.155928093.3973578754.134790>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.6735.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}]  
2022-06-27 21:09:42.095 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6735.1>,connection\_down} 2022-06-27 21:09:43.754 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:09:52.096 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.38.70.101":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:09:53.902 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:09:59.223 1 [warning]

<0.1657.0>@libp2p\_relay\_server:handle\_info:{177,5} relay was asked to be replaced <0.2407.1> "/p2p/11xqC5ndjdoDaq73tqdc4LoMMztLNPjChYRTX2tbsWc9YHufcLf/p2p-circuit/p2p/11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv"  
2022-06-27 21:09:59.227 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{189,5} rcvd unknown info msg: {'DOWN',#Ref<0.155928093.3974103041.92954>,process,<0.2407.1>,normal}  
2022-06-27 21:10:01.752 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}  
2022-06-27 21:10:04.048 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:10:04.273 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}  
2022-06-27 21:10:06.790 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}  
2022-06-27 21:10:06.962 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #{"<<"stat">> => #{"<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:10:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 21:10:06.963 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{"<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:10:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 21:10:06.964 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway #gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6031,dropped=0,status=#{"<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:10:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 21:10:09.311 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}  
2022-06-27 21:10:11.831 1 [warning] <0.1657.0>@libp2p\_relay\_server:handle\_info: {168,13} could not initiate relay {error,retry}  
2022-06-27 21:10:14.202 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:10:14.353 1 [warning]

<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 21:10:16.866 1 [info] <0.1657.0>@libp2p\_relay\_server:init\_relay:  
{242,13} initiating relay with peer "/p2p/  
112AWGsXhaneQqj3UHTPqgFYzM7EjHmMPF4BaPHVqt2vTwpKH5n5" 2022-06-27  
21:10:17.782 1 [info] <0.1657.0>@libp2p\_relay\_server:handle\_info: {162,13} relay  
started successfully with "/p2p/  
112AWGsXhaneQqj3UHTPqgFYzM7EjHmMPF4BaPHVqt2vTwpKH5n5" 2022-06-27  
21:10:18.082 1 [info] <0.1657.0>@libp2p\_relay\_server:handle\_call: {111,5} inserting  
new listener blockchain\_swarm, "/p2p/  
112AWGsXhaneQqj3UHTPqgFYzM7EjHmMPF4BaPHVqt2vTwpKH5n5/p2p-circuit/  
p2p/11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv",  
<0.6792.1>  
2022-06-27 21:10:18.245 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/  
112AWGsXhaneQqj3UHTPqgFYzM7EjHmMPF4BaPHVqt2vTwpKH5n5" informed us  
of our observed address "/ip4/80.77.186.186/tcp/37685"  
2022-06-27 21:10:22.100 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}]],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}]],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}]],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}]],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}]]]  
2022-06-27 21:10:22.100 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 21:10:22.101 1 [error] <0.6766.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.6766.1> with 0 neighbours exited with reason:  
timeout in gen\_server:init\_it/6 line 407  
2022-06-27 21:10:22.101 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6766.1>,timeout}  
2022-06-27 21:10:24.344 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:10:32.102 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.215.75.202":  
{gateway\_validators\_req\_v1\_pb,1}

```
2022-06-27 21:10:32.339 1 [info] <0.6799.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:10:32.341 1 [info] <0.6799.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.6798.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:10:32.564 1 [error] <0.6798.1>@http2_client:handle_settings:822
gen_server <0.6798.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:10:32.565 1 [error] <0.6798.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6798.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:10:32.566 1 [error] <0.6799.1>@Undefined:Undefined:Undefined
gen_server <0.6799.1> terminated with reason: connection_down
2022-06-27 21:10:32.566 1 [error] <0.6799.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6799.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:10:32.566 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6799.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 21:10:32.566 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:10:32.567 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:10:32.567 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:10:32.568 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6798.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6217>,socket_mon =>
#Ref<0.155928093.3973578754.136029>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6799.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}}
2022-06-27 21:10:32.568 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6799.1>,connection_down}
2022-06-27 21:10:34.491 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
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12291671073248440251 on 56833
2022-06-27 21:10:36.961 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:10:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:10:36.962 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:10:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:10:36.963 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6035,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:10:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:10:42.570 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:10:42.852 1 [info] <0.6803.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:10:42.853 1 [info] <0.6803.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.6802.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:10:43.127 1 [error] <0.6802.1>@http2_client:handle_settings:822
gen_server <0.6802.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:10:43.128 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6803.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```



```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 21:10:43.129 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:10:43.129 1 [error] <0.6802.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6802.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:10:43.129 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:10:43.129 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:10:43.129 1 [error] <0.6803.1>@Undefined:Undefined:Undefined
gen_server <0.6803.1> terminated with reason: connection_down
2022-06-27 21:10:43.130 1 [error] <0.6803.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6803.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:10:43.131 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6802.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{54,
{<<":authority">>,<<"18.230.8.198">>}}],{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6218>,socket_mon =>
#Ref<0.155928093.3973578754.136127>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6803.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:10:43.131 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6803.1>,connection_down}
2022-06-27 21:10:44.628 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:10:53.132 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:10:53.225 1 [info] <0.6813.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:10:53.227 1 [info] <0.6813.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.6812.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:10:53.311 1 [error] <0.6812.1>@http2_client:handle_settings:822
gen_server <0.6812.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 21:10:53.315 1 [error] <0.6812.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.6812.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:10:53.316 1 [error] <0.6813.1>@Undefined:Undefined:Undefined  
gen\_server <0.6813.1> terminated with reason: connection\_down

2022-06-27 21:10:53.317 1 [error] <0.6813.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.6813.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:10:53.318 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.6813.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]

2022-06-27 21:10:53.319 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 21:10:53.320 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 21:10:53.321 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 21:10:53.324 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6812.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6219>,socket_mon =>
#Ref<0.155928093.3973578754.136311>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6813.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:10:53.325 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6813.1>,connection_down}
2022-06-27 21:10:54.771 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:11:03.324 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:11:03.406 1 [info] <0.6834.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:11:03.408 1 [info] <0.6834.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.6833.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:11:03.489 1 [error] <0.6833.1>@http2_client:handle_settings:822
```

```
gen_server <0.6833.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:11:03.492 1 [error] <0.6833.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6833.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:11:03.492 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6834.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:11:03.492 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:11:03.493 1 [error] <0.6834.1>@Undefined:Undefined:Undefined
gen_server <0.6834.1> terminated with reason: connection_down
2022-06-27 21:11:03.493 1 [error] <0.6834.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6834.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:11:03.494 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:11:03.494 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:11:03.498 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6833.1>,{function_clause,
```

```
{http2_client,handle_settings,
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {52,
{<<":authority">>,<<"52.30.1.39">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6220>,socket_mon =>
#Ref<0.155928093.3973578754.136539>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6834.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:11:03.499 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6834.1>,connection_down} 2022-06-27
21:11:04.915 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:11:06.962 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:11:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:11:06.963 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:11:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:11:06.964 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=6039,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:11:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:11:13.498 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:11:13.768 1 [info] <0.6843.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:11:13.769 1 [info] <0.6843.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.6840.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:11:14.034 1 [error] <0.6840.1>@http2_client:handle_settings:822
gen_server <0.6840.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:11:14.035 1 [error] <0.6840.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6840.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:11:14.036 1 [error] <0.6843.1>@Undefined:Undefined:Undefined
gen_server <0.6843.1> terminated with reason: connection_down
2022-06-27 21:11:14.036 1 [error] <0.6843.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6843.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:11:14.036 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6843.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:11:14.036 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:11:14.037 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:11:14.037 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:11:14.038 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6840.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.39.165.144">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6221>,socket_mon =>
#Ref<0.155928093.3973578754.136658>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6843.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
```



```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 21:11:14.039 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6843.1>,connection_down}
2022-06-27 21:11:15.071 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:11:24.040 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:11:24.200 1 [info] <0.6851.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:11:24.201 1 [info] <0.6851.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.6850.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:11:24.361 1 [error] <0.6850.1>@http2_client:handle_settings:822
gen_server <0.6850.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:11:24.363 1 [error] <0.6850.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6850.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:11:24.364 1 [error] <0.6851.1>@Undefined:Undefined:Undefined
gen_server <0.6851.1> terminated with reason: connection_down
2022-06-27 21:11:24.364 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6851.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl",{line,226}}]}]
2022-06-27 21:11:24.364 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:11:24.364 1 [error] <0.6851.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6851.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:11:24.365 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:11:24.365 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:11:24.367 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6850.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{55,
{<<":authority">>,<<"3.131.232.233">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6222>,socket_mon =>
#Ref<0.155928093.3973578754.136813>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6851.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 21:11:24.367 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6851.1>,connection_down}
2022-06-27 21:11:25.244 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:11:34.368 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:11:34.607 1 [info] <0.6854.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:11:34.610 1 [info] <0.6854.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.6853.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:11:34.840 1 [error] <0.6853.1>@http2_client:handle_settings:822
gen_server <0.6853.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:11:34.842 1 [error] <0.6853.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6853.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:11:34.842 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6854.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[[file,"gen_server.erl"],{line,247}]],
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]},{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]},
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]},
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]]
2022-06-27 21:11:34.842 1 [error] <0.6854.1>@Undefined:Undefined:Undefined
gen_server <0.6854.1> terminated with reason: connection_down
2022-06-27 21:11:34.842 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:11:34.842 1 [error] <0.6854.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6854.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:11:34.842 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:11:34.843 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:11:34.844 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6853.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},server_window => 65528,socket => #Port<0.6223>,socket_mon =>
#Ref<0.155928093.3973578754.136897>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6854.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:11:34.844 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6854.1>,connection_down}
2022-06-27 21:11:35.385 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:11:36.970 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:11:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:11:36.971 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:11:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:11:36.972 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6043,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:11:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:11:44.845 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:11:45.133 1 [info] <0.6858.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:11:45.135 1 [info] <0.6858.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.6857.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:11:45.412 1 [error] <0.6857.1>@http2_client:handle_settings:822
gen_server <0.6857.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:11:45.413 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6858.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:11:45.413 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:11:45.414 1 [error] <0.6857.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6857.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:11:45.414 1 [error] <0.6858.1>@Undefined:Undefined:Undefined
gen_server <0.6858.1> terminated with reason: connection_down
2022-06-27 21:11:45.414 1 [error] <0.6858.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6858.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:11:45.415 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 21:11:45.415 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:11:45.417 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6857.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "13.125.32.225",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6224>,socket\_mon => #Ref<0.155928093.3973578754.136983>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.6858.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}]},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]

2022-06-27 21:11:45.417 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6858.1>,connection\_down}

2022-06-27 21:11:45.539 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:11:55.418 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.13.130.184":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 21:11:55.585 1 [info] <0.6866.1>@grpc\_client\_stream\_custom:init:

```
{131,9} init stream for RPC validators and type unary
2022-06-27 21:11:55.586 1 [info] <0.6866.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.6865.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:11:55.678 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:11:55.751 1 [error] <0.6865.1>@http2_client:handle_settings:822
gen_server <0.6865.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:11:55.753 1 [error] <0.6865.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6865.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:11:55.754 1 [error] <0.6866.1>@Undefined:Undefined:Undefined
gen_server <0.6866.1> terminated with reason: connection_down
2022-06-27 21:11:55.754 1 [error] <0.6866.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6866.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:11:55.755 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6866.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```



```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:11:55.756 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:11:55.756 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:11:55.756 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:11:55.758 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6865.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.13.130.184">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6225>,socket_mon =>
#Ref<0.155928093.3973578754.137099>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6866.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}]
2022-06-27 21:11:55.759 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6866.1>,connection_down}
```

```
2022-06-27 21:12:05.758 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:12:05.824 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:12:06.035 1 [info] <0.6898.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:12:06.036 1 [info] <0.6898.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.6897.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:12:06.296 1 [error] <0.6897.1>@http2_client:handle_settings:822
gen_server <0.6897.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:12:06.297 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6898.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:12:06.297 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 21:12:06.297 1 [error] <0.6897.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6897.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:12:06.298 1 [error] <0.6898.1>@Undefined:Undefined:Undefined
gen_server <0.6898.1> terminated with reason: connection_down
2022-06-27 21:12:06.298 1 [error] <0.6898.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6898.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:12:06.299 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:12:06.299 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:12:06.301 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6897.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6227>,socket_mon =>
#Ref<0.155928093.3973578754.137414>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6898.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]]}
2022-06-27 21:12:06.301 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6898.1>,connection_down}
2022-06-27 21:12:06.969 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:12:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:12:06.970 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:12:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:12:06.971 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6047,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:12:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:12:15.964 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:12:16.302 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:12:16.631 1 [info] <0.6905.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:12:16.633 1 [info] <0.6905.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.6904.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:12:16.957 1 [error] <0.6904.1>@http2_client:handle_settings:822
gen_server <0.6904.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 21:12:16.960 1 [error] <0.6904.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6904.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 21:12:16.961 1 [error] <0.6905.1>@Undefined:Undefined:Undefined
gen_server <0.6905.1> terminated with reason: connection_down
2022-06-27 21:12:16.962 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6905.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:12:16.961 1 [error] <0.6905.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6905.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:12:16.962 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:12:16.963 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:12:16.963 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:12:16.965 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6904.1>,{function_clause,
[{http2_client,handle_settings,
[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6228>,socket_mon =>
#Ref<0.155928093.3973578754.137624>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6905.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 21:12:16.966 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6905.1>,connection_down} 2022-06-27
21:12:21.702 1 [info] <0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5}
dropping target for peerbook <0.1638.0>
2022-06-27 21:12:26.118 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:12:26.966 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:12:27.300 1 [info] <0.6932.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:12:27.301 1 [info] <0.6932.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.6931.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:12:27.631 1 [error] <0.6931.1>@http2_client:handle_settings:822
gen_server <0.6931.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:12:27.632 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6932.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:12:27.632 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:12:27.633 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:12:27.633 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:12:27.633 1 [error] <0.6931.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6931.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:12:27.633 1 [error] <0.6932.1>@Undefined:Undefined:Undefined
gen_server <0.6932.1> terminated with reason: connection_down
2022-06-27 21:12:27.634 1 [error] <0.6932.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6932.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:12:27.634 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6931.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6234>,socket_mon =>
#Ref<0.155928093.3973578754.138017>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6932.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 21:12:27.634 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6932.1>,connection_down} 2022-06-27
21:12:36.265 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:12:36.965 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:12:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:12:36.966 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```



```
<<"2022-06-27 21:12:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:12:36.967 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6051,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:12:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:12:37.635 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:12:37.869 1 [info] <0.6936.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:12:37.870 1 [info] <0.6936.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.6935.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:12:38.105 1 [error] <0.6935.1>@http2_client:handle_settings:822
gen_server <0.6935.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:12:38.105 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6936.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 21:12:38.106 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:12:38.106 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:12:38.107 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:12:38.108 1 [error] <0.6935.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6935.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:12:38.109 1 [error] <0.6936.1>@Undefined:Undefined:Undefined
gen_server <0.6936.1> terminated with reason: connection_down
2022-06-27 21:12:38.110 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6935.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6235>,socket_mon =>
#Ref<0.155928093.3973578754.138211>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6936.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[[file,"gen_server.erl"],{line,695}]},
{gen_server,handle_msg,6,[[file,"gen_server.erl"],{line,771}]},
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}]
2022-06-27 21:12:38.111 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6936.1>,connection_down} 2022-06-27
21:12:38.112 1 [error] <0.6936.1>@Undefined:Undefined:Undefined CRASH
REPORT Process <0.6936.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:12:46.404 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:12:48.109 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:12:48.347 1 [info] <0.6939.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:12:48.347 1 [info] <0.6939.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.6938.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:12:48.579 1 [error] <0.6938.1>@http2_client:handle_settings:822
gen_server <0.6938.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:12:48.579 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6939.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[[file,"gen_server.erl"],{line,247}]},
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]}, {grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:12:48.579 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:12:48.580 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:12:48.580 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:12:48.580 1 [error] <0.6938.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6938.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:12:48.580 1 [error] <0.6939.1>@Undefined:Undefined:Undefined
gen_server <0.6939.1> terminated with reason: connection_down
2022-06-27 21:12:48.581 1 [error] <0.6939.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6939.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:12:48.581 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6938.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6236>,socket_mon =>
```

```
#Ref<0.155928093.3973578754.138417>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6939.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 21:12:48.581 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6939.1>,connection_down}
2022-06-27 21:12:56.551 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:12:58.583 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:12:58.745 1 [info] <0.6947.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:12:58.745 1 [info] <0.6947.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.6946.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:12:58.900 1 [error] <0.6946.1>@http2_client:handle_settings:822
gen_server <0.6946.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:12:58.901 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6947.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 21:12:58.901 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:12:58.901 1 [error] <0.6946.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6946.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:12:58.901 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:12:58.901 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:12:58.901 1 [error] <0.6947.1>@Undefined:Undefined:Undefined
gen_server <0.6947.1> terminated with reason: connection_down
2022-06-27 21:12:58.903 1 [error] <0.6947.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6947.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:12:58.903 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6946.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6237>,socket_mon =>
#Ref<0.155928093.3973578754.138687>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6947.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 21:12:58.903 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6947.1>,connection_down}
2022-06-27 21:13:06.705 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:13:06.970 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:13:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:13:06.970 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:13:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:13:06.972 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6055,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:13:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:13:08.904 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:13:09.174 1 [info] <0.6961.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 21:13:09.175 1 [info] <0.6961.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.6960.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:13:09.441 1 [error] <0.6960.1>@http2_client:handle_settings:822
gen_server <0.6960.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:13:09.444 1 [error] <0.6960.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6960.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:13:09.444 1 [error] <0.6961.1>@Undefined:Undefined:Undefined
gen_server <0.6961.1> terminated with reason: connection_down
2022-06-27 21:13:09.444 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6961.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:13:09.445 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:13:09.445 1 [error] <0.6961.1>@Undefined:Undefined:Undefined
```



CRASH REPORT Process <0.6961.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 21:13:09.446 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 21:13:09.446 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 21:13:09.448 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6960.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,  
{<<":authority">>,<<"3.39.165.144">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "3.39.165.144",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6238>,socket\_mon =>  
#Ref<0.155928093.3973578754.138915>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.6961.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 21:13:09.449 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.6961.1>,connection\_down}  
2022-06-27 21:13:16.851 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:13:19.449 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:13:19.542 1 [info] <0.6968.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:13:19.543 1 [info] <0.6968.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.6967.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:13:19.628 1 [error] <0.6967.1>@http2_client:handle_settings:822
gen_server <0.6967.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:13:19.629 1 [error] <0.6967.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6967.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:13:19.630 1 [error] <0.6968.1>@Undefined:Undefined:Undefined
gen_server <0.6968.1> terminated with reason: connection_down
2022-06-27 21:13:19.630 1 [error] <0.6968.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6968.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:13:19.631 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6968.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:13:19.631 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:13:19.632 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:13:19.632 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:13:19.633 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6967.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6239>,socket_mon =>
#Ref<0.155928093.3973578754.139130>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6968.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]]}
2022-06-27 21:13:19.634 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
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in setup state: Type: info, Msg: {'EXIT',<0.6968.1>,connection_down}
2022-06-27 21:13:27.004 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:13:29.635 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:13:29.795 1 [info] <0.6982.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:13:29.797 1 [info] <0.6982.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.6979.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:13:29.946 1 [error] <0.6979.1>@http2_client:handle_settings:822
gen_server <0.6979.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:13:29.947 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6982.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:13:29.948 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

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<<"stream create failed">>}}
2022-06-27 21:13:29.948 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:13:29.948 1 [error] <0.6979.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6979.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:13:29.948 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:13:29.948 1 [error] <0.6982.1>@Undefined:Undefined:Undefined
gen_server <0.6982.1> terminated with reason: connection_down
2022-06-27 21:13:29.949 1 [error] <0.6982.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6982.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:13:29.950 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6979.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6240>,socket_mon =>
#Ref<0.155928093.3973578754.139441>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6982.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 21:13:29.950 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6982.1>,connection_down}
2022-06-27 21:13:36.967 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:13:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:13:36.967 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:13:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:13:36.968 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6058,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:13:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:13:37.147 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:13:39.951 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:13:40.287 1 [info] <0.6985.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:13:40.287 1 [info] <0.6985.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.6984.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:13:40.620 1 [error] <0.6984.1>@http2_client:handle_settings:822
gen_server <0.6984.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:13:40.621 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6985.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:13:40.622 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:13:40.622 1 [error] <0.6984.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6984.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:13:40.622 1 [error] <0.6985.1>@Undefined:Undefined:Undefined
gen_server <0.6985.1> terminated with reason: connection_down
2022-06-27 21:13:40.623 1 [error] <0.6985.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6985.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:13:40.623 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:13:40.623 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:13:40.625 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6984.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6241>,socket_mon =>
#Ref<0.155928093.3973578754.139632>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6985.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:13:40.625 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6985.1>,connection_down} 2022-06-27
21:13:47.298 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:13:50.626 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:13:50.795 1 [info] <0.6988.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:13:50.797 1 [info] <0.6988.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.6987.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```



miner\_poc\_grpc\_client\_handler

2022-06-27 21:13:50.956 1 [error] <0.6987.1>@http2\_client:handle\_settings:822

gen\_server <0.6987.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:13:50.960 1 [error] <0.6987.1>@http2\_client:handle\_settings:822

CRASH REPORT Process <0.6987.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:13:50.961 1 [error] <0.6988.1>@Undefined:Undefined:Undefined

gen\_server <0.6988.1> terminated with reason: connection\_down

2022-06-27 21:13:50.962 1 [error] <0.6988.1>@Undefined:Undefined:Undefined

CRASH REPORT Process <0.6988.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:13:50.962 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.6988.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},

{miner\_poc\_grpc\_client\_statem,setup,3,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},

{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}

2022-06-27 21:13:50.963 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New

Connection, send unary result: {error,#{error\_type => client,status\_message =>

<<"stream create failed">>}}

2022-06-27 21:13:50.964 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc

client error response

2022-06-27 21:13:50.964 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to

validator failed: {error,req\_failed}

2022-06-27 21:13:50.968 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6987.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6242>,socket_mon =>
#Ref<0.155928093.3974365185.38222>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.6988.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:13:50.968 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.6988.1>,connection_down} 2022-06-27
21:13:57.444 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:14:00.967 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:14:01.127 1 [info] <0.6996.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:14:01.128 1 [info] <0.6996.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.6995.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:14:01.282 1 [error] <0.6995.1>@http2_client:handle_settings:822
gen_server <0.6995.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:14:01.283 1 [error] <0.6995.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.6995.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:14:01.285 1 [error] <0.6996.1>@Undefined:Undefined:Undefined
gen_server <0.6996.1> terminated with reason: connection_down
2022-06-27 21:14:01.285 1 [error] <0.6996.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.6996.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:14:01.286 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.6996.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:14:01.286 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:14:01.287 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

2022-06-27 21:14:01.287 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:14:01.288 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6995.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}]}]},host => "3.13.130.184",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6243>,socket\_mon => #Ref<0.155928093.3973578754.140083>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.6996.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}]},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 21:14:01.289 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.6996.1>,connection\_down}

2022-06-27 21:14:06.976 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:14:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 21:14:06.977 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>

```
<<"2022-06-27 21:14:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:14:06.978 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6062,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:14:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:14:07.585 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:14:11.290 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:14:11.521 1 [info] <0.7005.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:14:11.522 1 [info] <0.7005.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.7004.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:14:11.746 1 [error] <0.7004.1>@http2_client:handle_settings:822
gen_server <0.7004.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:14:11.748 1 [error] <0.7004.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7004.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:14:11.748 1 [error] <0.7005.1>@Undefined:Undefined:Undefined
gen_server <0.7005.1> terminated with reason: connection_down
2022-06-27 21:14:11.749 1 [error] <0.7005.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7005.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:14:11.750 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7005.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:14:11.750 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:14:11.751 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:14:11.751 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:14:11.753 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7004.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6244>,socket_mon =>
#Ref<0.155928093.3973578754.140267>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.7005.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 21:14:11.753 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7005.1>,connection_down}
2022-06-27 21:14:17.731 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:14:21.754 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:14:21.914 1 [info] <0.7017.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:14:21.915 1 [info] <0.7017.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.7016.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:14:22.071 1 [error] <0.7016.1>@http2_client:handle_settings:822
gen_server <0.7016.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:14:22.072 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7017.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 21:14:22.072 1 [error] <0.7016.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7016.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:14:22.073 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:14:22.073 1 [error] <0.7017.1>@Undefined:Undefined:Undefined
gen_server <0.7017.1> terminated with reason: connection_down
2022-06-27 21:14:22.073 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:14:22.073 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:14:22.073 1 [error] <0.7017.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7017.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:14:22.075 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7016.1>,{function_clause,
[{{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```



```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6245>,socket_mon =>
#Ref<0.155928093.3974365185.38564>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7017.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:14:22.076 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7017.1>,connection_down}
2022-06-27 21:14:27.865 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:14:27.906 1 [notice] <0.7030.1>@libp2p_stream_relay:handle_info:
{146,5} client init bridge Server to Client {libp2p_relay_bridge_rs_pb,"/p2p/
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv";/
ip4/43.157.120.48/tcp/44158"}
2022-06-27 21:14:27.976 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ" informed us of
our observed address "/ip4/80.77.186.186/tcp/52580"
2022-06-27 21:14:30.010 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.7041.1>, Ref:
#Ref<0.155928093.3973578754.140905>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 21:14:32.076 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:14:32.408 1 [info] <0.7050.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:14:32.409 1 [info] <0.7050.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.7047.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:14:32.727 1 [error] <0.7047.1>@http2_client:handle_settings:822
gen_server <0.7047.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:14:32.728 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7050.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:14:32.728 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:14:32.728 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:14:32.728 1 [error] <0.7047.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7047.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:14:32.728 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:14:32.729 1 [error] <0.7050.1>@Undefined:Undefined:Undefined
gen_server <0.7050.1> terminated with reason: connection_down
2022-06-27 21:14:32.729 1 [error] <0.7050.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.7050.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 21:14:32.729 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.7047.1>,{function\_clause,  
[http2\_client,handle\_settings,  
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,  
{<<":authority">>,<<"13.237.155.172">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]}],host => "13.237.155.172",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6247>,socket\_mon =>  
#Ref<0.155928093.3974365185.38657>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.7050.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}}]}]}  
2022-06-27 21:14:32.730 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.7050.1>,connection\_down}  
2022-06-27 21:14:36.977 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:14:36 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 21:14:36.977 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:14:36 GMT">>,<<"txnb">> => 0}

2022-06-27 21:14:36.978 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6066,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:14:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 21:14:38.014 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:14:42.351 1 [info] <0.1662.0>@blockchain\_worker:handle\_info: {673,53} block sync down: normal

2022-06-27 21:14:42.363 1 [info] <0.1662.0>@blockchain\_worker:start\_sync: {888,13} new block sync starting with Pid: <0.7056.1>, Ref: #Ref<0.155928093.3973578754.141292>, Peer: "/p2p/112bxs9KihgtHLmbBsHQFDe3xnDysAbSgKDRNdWzrn879icKGquY"

2022-06-27 21:14:42.730 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.210.14.128":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 21:14:43.522 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/112bxs9KihgtHLmbBsHQFDe3xnDysAbSgKDRNdWzrn879icKGquY" informed us of our observed address "/ip4/80.77.186.186/tcp/34484"

2022-06-27 21:14:43.840 1 [info] <0.7073.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 21:14:43.842 1 [info] <0.7073.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"52.210.14.128">>,http\_connection => <0.7057.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{},name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 21:14:43.928 1 [error] <0.7057.1>@http2\_client:handle\_settings:822 gen\_server <0.7057.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:14:43.930 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.7073.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

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{file,"gen_server.erl"},{line,247}}},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:14:43.931 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:14:43.931 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:14:43.931 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:14:43.931 1 [error] <0.7057.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7057.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:14:43.932 1 [error] <0.7073.1>@Undefined:Undefined:Undefined
gen_server <0.7073.1> terminated with reason: connection_down
2022-06-27 21:14:43.933 1 [error] <0.7073.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7073.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:14:43.933 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7057.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

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{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6253>,socket_mon =>
#Ref<0.155928093.3973578754.141423>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7073.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:14:43.934 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7073.1>,connection_down} 2022-06-27
21:14:48.161 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:14:53.934 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:14:54.103 1 [info] <0.7076.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:14:54.104 1 [info] <0.7076.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.7075.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:14:54.264 1 [error] <0.7075.1>@http2_client:handle_settings:822
gen_server <0.7075.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:14:54.266 1 [error] <0.7075.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7075.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:14:54.267 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7076.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:14:54.267 1 [error] <0.7076.1>@Undefined:Undefined:Undefined
gen_server <0.7076.1> terminated with reason: connection_down
2022-06-27 21:14:54.267 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:14:54.268 1 [error] <0.7076.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7076.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:14:54.269 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:14:54.269 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:14:54.273 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7075.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6254>,socket_mon =>
#Ref<0.155928093.3973578754.141666>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7076.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:14:54.275 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7076.1>,connection_down}
2022-06-27 21:14:54.908 1 [info]
<0.7068.1>@blockchain_sync_handler:handle_data:{132,5} adding sync blocks
[1409926,1409927,1409928,1409929,1409930]
2022-06-27 21:14:57.644 1 [info]
<0.7068.1>@blockchain_sync_handler:handle_data:{142,13} Eagerly re-gossiping
1409930
2022-06-27 21:14:58.311 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:14:59.227 1 [info] <0.7078.1>@blockchain_txn:validate:{299,5}
valid: [], invalid: []
2022-06-27 21:14:59.310 1 [info] <0.7085.1>@blockchain_txn:absorb:{578,21}
took 33 ms to absorb blockchain_txn_payment_v1
2022-06-27 21:14:59.606 1 [info] <0.7085.1>@blockchain_txn:absorb:{578,21}
took 283 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 21:14:59.732 1 [info] <0.7078.1>@blockchain_txn:absorb:{578,21}
took 370 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 21:14:59.991 1 [info] <0.7085.1>@blockchain_txn:absorb:{578,21}
took 385 ms to absorb blockchain_txn_assert_location_v2
```



2022-06-27 21:15:00.059 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_validator\_heartbeat\_v1

2022-06-27 21:15:00.148 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:00.170 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 438 ms to absorb blockchain\_txn\_assert\_location\_v2

2022-06-27 21:15:00.181 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:00.229 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:00.289 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:00.357 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:00.410 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:00.473 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:00.522 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:00.575 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:00.619 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 449 ms to absorb blockchain\_txn\_assert\_location\_v2

2022-06-27 21:15:00.623 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:00.669 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:00.710 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:00.770 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:00.865 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 94 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:00.903 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:00.949 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:01.001 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:01.104 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 485 ms to absorb blockchain\_txn\_assert\_location\_v2

2022-06-27 21:15:01.138 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 137 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:01.189 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:01.215 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:01.282 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:01.317 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:01.344 1 [info] <0.1636.0>@libp2p\_peerbook:notify\_peers:  
{726,5} gossiping out 5 notify peers

2022-06-27 21:15:01.367 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:01.417 1 [info] <0.7085.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:01.446 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 341 ms to absorb blockchain\_txn\_assert\_location\_v2

2022-06-27 21:15:01.592 1 [info]  
<0.7085.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected  
241 POCs for block height 1409875

2022-06-27 21:15:01.772 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:01.824 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:01.889 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:01.961 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:02.019 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:02.099 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 80 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:02.186 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 87 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:02.297 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 110 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:02.352 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:02.412 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:02.470 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:02.514 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:02.594 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}

took 75 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:02.678 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 84 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:02.762 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 84 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:02.820 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:02.873 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:02.929 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:02.969 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:03.050 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 80 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:03.138 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 85 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:03.185 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:03.256 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:03.358 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 101 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:03.418 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:03.466 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:03.523 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:03.594 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:03.690 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 95 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:03.770 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 80 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:03.816 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:03.849 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:03.883 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:03.936 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:04.008 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}

took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:04.080 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:04.125 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:04.183 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:04.264 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:04.280 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "54.70.239.5":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:15:04.317 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:04.376 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:04.423 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:04.476 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:04.513 1 [info] <0.7089.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 21:15:04.513 1 [info] <0.7089.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"54.70.239.5">>,http\_connection => <0.7088.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 21:15:04.528 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:04.607 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:04.704 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 97 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:04.741 1 [error] <0.7088.1>@http2\_client:handle\_settings:822  
gen\_server <0.7088.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:15:04.745 1 [error] <0.7088.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7088.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:15:04.746 1 [error] <0.7089.1>@Undefined:Undefined:Undefined
gen_server <0.7089.1> terminated with reason: connection_down
2022-06-27 21:15:04.746 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7089.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:15:04.746 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:15:04.747 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:15:04.747 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:15:04.747 1 [error] <0.7089.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7089.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:15:04.748 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7088.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {53,
{<<":authority">>,<<"54.70.239.5">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6255>,socket_mon =>
#Ref<0.155928093.3974365185.39351>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7089.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:15:04.749 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7089.1>,connection_down} 2022-06-27
21:15:04.764 1 [info] <0.7078.1>@blockchain_txn:absorb:{578,21} took 60 ms to
absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:04.903 1 [info] <0.7078.1>@blockchain_txn:absorb:{578,21}
took 42 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:04.943 1 [info] <0.7078.1>@blockchain_txn:absorb:{578,21}
took 34 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:04.978 1 [info] <0.7078.1>@blockchain_txn:absorb:{578,21}
took 34 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:05.049 1 [info] <0.7078.1>@blockchain_txn:absorb:{578,21}
took 70 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:05.137 1 [info] <0.7078.1>@blockchain_txn:absorb:{578,21}
took 87 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:05.215 1 [info] <0.7078.1>@blockchain_txn:absorb:{578,21}
took 78 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:05.254 1 [info] <0.7078.1>@blockchain_txn:absorb:{578,21}
took 39 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:05.294 1 [info] <0.7078.1>@blockchain_txn:absorb:{578,21}
took 40 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:05.340 1 [info] <0.7078.1>@blockchain_txn:absorb:{578,21}
```

took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:05.380 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:05.421 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:05.472 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:05.535 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:05.584 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:05.658 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:05.716 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:05.770 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:05.821 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:05.885 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:05.947 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.005 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.078 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.176 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 98 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.227 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.309 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.391 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 81 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.439 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.477 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.525 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.571 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.605 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}

took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.642 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.675 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.713 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.767 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.843 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.938 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 91 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:06.975 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:15:06 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 21:15:06.975 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:15:06 GMT">>,<<"txnb">> => 0}  
2022-06-27 21:15:06.977 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=6070,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:15:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 21:15:06.993 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:07.059 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:07.150 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 91 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:07.211 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21} took  
60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:07.292 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:07.339 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:07.381 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:07.419 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}



took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:07.548 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:07.580 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:07.607 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:07.663 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:07.735 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:07.803 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:07.912 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 109 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:07.955 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:08.012 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:08.115 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 103 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:08.206 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 91 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:08.300 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 94 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:08.371 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:08.416 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:08.442 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:08.454 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:15:08.478 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:08.510 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:08.556 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:08.597 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:08.643 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:08.723 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 80 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:08.821 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 97 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:08.863 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:08.943 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.028 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 84 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.126 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 99 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.228 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 102 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.301 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.338 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.370 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.424 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.460 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.500 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.560 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.595 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.651 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.701 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.777 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.872 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 95 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:09.944 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:10.022 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:10.088 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:10.195 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 107 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:10.293 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 98 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:10.394 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 101 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:10.471 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:10.519 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:10.555 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:10.630 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:10.677 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:10.727 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:10.769 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:10.841 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:10.943 1 [info] <0.7078.1>@blockchain\_txn:absorb:{578,21}  
took 102 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:11.122 1 [info]  
<0.7078.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected 212  
POCs for block height 1409926  
2022-06-27 21:15:11.356 1 [error] emulator@Undefined:Undefined:Undefined  
Error in process <0.7078.1> on node 'miner@127.0.0.1' with exit value: {{badmatch,  
{error,{error,"Corruption: block checksum mismatch: stored = 1975174337,  
computed = 3807013015 in /var/data/blockchain.db/015769.sst offset 486887 size  
514635"}},[{blockchain,save\_block,2,[{file,"blockchain.erl"}, {line,2535}]},  
{blockchain,'-add\_block\_/3-fun-0-',5,[{file,"blockchain.erl"}, {line,1136}]},  
{blockchain\_txn,unvalidated\_absorb\_and\_commit,4, [{file,"blockchain\_txn.erl"},  
{line,508}]},{blockchain,add\_block\_,3, [{file,"blockchain.erl"},{line,1157}]},  
{blockchain,'-check\_plausible\_blocks/2- fun-1-',4,[{file,"blockchain.erl"},  
{line,2989}]},{lists,foreach,2,[{file,"lists.erl"}, {line,1342}]},  
{blockchain,check\_plausible\_blocks,2,[{file,"blockchain.erl"}, {line,2983}]}}]  
2022-06-27 21:15:11.364 1 [info] <0.1662.0>@blockchain\_worker:handle\_info:  
{673,53} block sync down: normal  
2022-06-27 21:15:11.374 1 [info] <0.1662.0>@blockchain\_worker:start\_sync:  
{888,13} new block sync starting with Pid: <0.7095.1>, Ref:  
#Ref<0.155928093.3973578754.144801>, Peer: "/p2p/  
1122B97N99b65u8w1RwSzCzUGf3Exf5h5GyjjxiizGgZQapyRhcJ"

```
2022-06-27 21:15:12.505 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
1122B97N99b65u8w1RwSzCzUGf3Exf5h5GyjjxiizGgZQapyRhcJ" informed us of
our observed address "/ip4/80.77.186.186/tcp/56659"
2022-06-27 21:15:14.750 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:15:14.983 1 [info] <0.7112.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:15:14.985 1 [info] <0.7112.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.7111.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:15:15.205 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7112.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:15:15.205 1 [error] <0.7111.1>@http2_client:handle_settings:822
gen_server <0.7111.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:15:15.205 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 21:15:15.207 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:15:15.207 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:15:15.210 1 [error] <0.7111.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7111.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:15:15.211 1 [error] <0.7112.1>@Undefined:Undefined:Undefined
gen_server <0.7112.1> terminated with reason: connection_down
2022-06-27 21:15:15.212 1 [error] <0.7112.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7112.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:15:15.212 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7111.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.89.130.114">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6261>,socket_mon =>
#Ref<0.155928093.3973316611.208992>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7112.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 21:15:15.214 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7112.1>,connection_down}
2022-06-27 21:15:18.607 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:15:25.160 1 [info]
<0.7106.1>@blockchain_sync_handler:handle_data:{132,5} adding sync blocks
[1409926,1409927,1409928,1409929,1409930]
2022-06-27 21:15:25.210 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:15:25.483 1 [info] <0.7117.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:15:25.485 1 [info] <0.7117.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.7116.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:15:25.750 1 [error] <0.7116.1>@http2_client:handle_settings:822
gen_server <0.7116.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:15:25.754 1 [error] <0.7116.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7116.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:15:25.754 1 [error] <0.7117.1>@Undefined:Undefined:Undefined
gen_server <0.7117.1> terminated with reason: connection_down
2022-06-27 21:15:25.755 1 [error] <0.7117.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7117.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:15:25.755 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7117.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:15:25.755 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:15:25.756 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:15:25.756 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:15:25.757 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7116.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6262>,socket_mon =>
```

```
#Ref<0.155928093.3974365185.40249>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7117.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 21:15:25.757 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7117.1>,connection_down}
2022-06-27 21:15:27.714 1 [info]
<0.7106.1>@blockchain_sync_handler:handle_data:{142,13} Eagerly re-gossiping
1409930
2022-06-27 21:15:28.755 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:15:29.296 1 [info] <0.7119.1>@blockchain_txn:validate:{299,5}
valid: [], invalid: []
2022-06-27 21:15:29.381 1 [info] <0.7126.1>@blockchain_txn:absorb:{578,21}
took 33 ms to absorb blockchain_txn_payment_v1
2022-06-27 21:15:29.700 1 [info] <0.7126.1>@blockchain_txn:absorb:{578,21}
took 296 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 21:15:29.800 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 376 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 21:15:30.083 1 [info] <0.7126.1>@blockchain_txn:absorb:{578,21}
took 382 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 21:15:30.186 1 [info] <0.7126.1>@blockchain_txn:absorb:{578,21}
took 103 ms to absorb blockchain_txn_validator_heartbeat_v1
2022-06-27 21:15:30.193 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21} took
393 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 21:15:30.239 1 [info] <0.7126.1>@blockchain_txn:absorb:{578,21}
took 52 ms to absorb blockchain_txn_validator_heartbeat_v1
2022-06-27 21:15:30.282 1 [info] <0.7126.1>@blockchain_txn:absorb:{578,21}
took 25 ms to absorb blockchain_txn_validator_heartbeat_v1
2022-06-27 21:15:30.355 1 [info] <0.7126.1>@blockchain_txn:absorb:{578,21}
took 58 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:30.383 1 [info] <0.7126.1>@blockchain_txn:absorb:{578,21}
took 28 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:30.410 1 [info] <0.7126.1>@blockchain_txn:absorb:{578,21}
took 26 ms to absorb blockchain_txn_poc_receipts_v2
```



2022-06-27 21:15:30.455 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:30.510 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:30.560 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:30.618 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:30.633 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 440 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:15:30.696 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21}  
took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:30.751 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:30.792 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:30.826 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:30.860 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:30.905 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:30.965 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:31.071 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21} took  
80 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:31.114 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
480 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:15:31.131 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21} took  
59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:31.174 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21} took  
43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:31.290 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:31.327 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:31.357 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:31.401 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
286 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:15:31.406 1 [info] <0.7126.1>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:31.559 1 [info]  
<0.7126.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected 241

POCs for block height 1409875

2022-06-27 21:15:31.705 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:31.758 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:31.823 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:31.890 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:31.949 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:32.033 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 83 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:32.117 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 84 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:32.225 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 107 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:32.279 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:32.343 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:32.395 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:32.439 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:32.520 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:32.604 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 84 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:32.689 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 84 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:32.744 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:32.800 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:32.856 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:32.898 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:32.978 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:33.064 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:33.113 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took

48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:33.184 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:33.286 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 102 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:33.347 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:33.397 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:33.460 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:33.532 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:33.611 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:33.655 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:33.700 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:33.733 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:33.765 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:33.813 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:33.886 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:33.959 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.001 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.057 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.110 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.204 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.263 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.329 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.396 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.451 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took

56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.513 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.562 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.612 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.669 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.744 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 75 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.817 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.886 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.934 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:34.969 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:35.035 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:35.112 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:35.162 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:35.227 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:35.328 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 101 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:35.371 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:35.413 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:35.457 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:35.529 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:35.624 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 95 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:35.703 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:35.732 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:35.758 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:15:35.832 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 33 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:35.865 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 32 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:35.923 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 58 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:35.987 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 60 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.031 1 [info] <0.7128.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:15:36.032 1 [info] <0.7128.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.7127.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:15:36.044 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 57 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.111 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21} took
59 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.170 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21} took
55 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.215 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21} took
41 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.265 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 50 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.296 1 [error] <0.7127.1>@http2_client:handle_settings:822
gen_server <0.7127.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:15:36.297 1 [error] <0.7127.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7127.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:15:36.300 1 [error] <0.7128.1>@Undefined:Undefined:Undefined
gen_server <0.7128.1> terminated with reason: connection_down
2022-06-27 21:15:36.300 1 [error] <0.7128.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7128.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:15:36.301 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7128.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:15:36.302 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:15:36.303 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:15:36.303 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:15:36.304 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7127.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"18.228.115.118">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6263>,socket_mon =>
#Ref<0.155928093.3974365185.40999>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7128.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 21:15:36.304 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7128.1>,connection_down}
2022-06-27 21:15:36.310 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21} took
41 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.376 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 66 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.442 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 61 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.496 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 53 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.549 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 53 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.602 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 53 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.662 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 60 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.726 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 64 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.776 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 50 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.848 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21}
took 72 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.919 1 [info] <0.7119.1>@blockchain_txn:absorb:{578,21} took
70 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:15:36.976 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
```

0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:15:36 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 21:15:36.976 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:15:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 21:15:36.977 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=6074,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:15:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 21:15:36.981 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.033 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.097 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.139 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.192 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.253 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.304 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.339 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.392 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.465 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.513 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.551 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.623 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.719 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
95 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.774 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.855 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took



80 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.936 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:37.992 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:38.036 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:38.118 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
81 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:38.205 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 87 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:38.278 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:38.324 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:38.362 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:38.402 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:38.495 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:38.541 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:38.604 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:38.708 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 103 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:38.780 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:38.873 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:38.896 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:15:38.979 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 106 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:39.056 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:39.097 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:39.147 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:15:39.224 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:39.295 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:39.362 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:39.409 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:39.460 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:39.515 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
54 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:39.558 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:39.586 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:39.613 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
27 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:39.662 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:39.717 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
55 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:39.776 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:39.839 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:39.899 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:39.960 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.017 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
57 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.092 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 75 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.151 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
55 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.213 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took  
58 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.267 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.328 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.384 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.438 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.505 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.552 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.597 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.662 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.755 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 92 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.804 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.876 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:40.969 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:41.033 1 [info] <0.7119.1>@blockchain\_txn:absorb:{578,21} took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:15:41.156 1 [info] <0.7119.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected 212 POCs for block height 1409926

2022-06-27 21:15:41.335 1 [error] emulator@Undefined:Undefined:Undefined Error in process <0.7119.1> on node 'miner@127.0.0.1' with exit value: {{badmatch, {error,{error,"Corruption: block checksum mismatch: stored = 1975174337, computed = 3807013015 in /var/data/blockchain.db/015769.sst offset 486887 size 514635"}},[{blockchain,save\_block,2,[{file,"blockchain.erl"}, {line,2535}]}, {blockchain,'-add\_block\_/3-fun-0-',5,[{file,"blockchain.erl"}, {line,1136}]}, {blockchain\_txn,unvalidated\_absorb\_and\_commit,4, [{file,"blockchain\_txn.erl"}, {line,508}]},{blockchain,add\_block\_,3, [{file,"blockchain.erl"},{line,1157}]}, {blockchain,'-check\_plausible\_blocks/2- fun-1-',4,[{file,"blockchain.erl"}, {line,2989}]},{lists,foreach,2,[{file,"lists.erl"}, {line,1342}]}, {blockchain,check\_plausible\_blocks,2,[{file,"blockchain.erl"}, {line,2983}]}}}}

2022-06-27 21:15:41.353 1 [info] <0.1662.0>@blockchain\_worker:handle\_info: {673,53} block sync down: normal

2022-06-27 21:15:46.306 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.228.158.83": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 21:15:46.580 1 [info] <0.7132.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 21:15:46.581 1 [info] <0.7132.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"18.228.158.83">>,http\_connection => <0.7131.1>,scheme =>

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:15:46.850 1 [error] <0.7131.1>@http2_client:handle_settings:822
gen_server <0.7131.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:15:46.851 1 [error] <0.7131.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7131.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:15:46.851 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7132.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:15:46.852 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:15:46.852 1 [error] <0.7132.1>@Undefined:Undefined:Undefined
gen_server <0.7132.1> terminated with reason: connection_down
2022-06-27 21:15:46.852 1 [error] <0.7132.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7132.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:15:46.852 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 21:15:46.852 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:15:46.854 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.7131.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "18.228.158.83",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6264>,socket\_mon => #Ref<0.155928093.3973578754.147147>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.7132.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 21:15:46.855 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.7132.1>,connection\_down}

2022-06-27 21:15:49.038 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:15:56.844 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"rxpk">> => [#{<<"chan">> => 2,<<"codr">> => <<"4/5">>,<<"data">> => <<"QGANegGAT1MC2bdBksjR+6yE3nXhKTTGqRuVduQ=">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> => -658,<<"freq">> => 868.5,<<"jver">> =>

```
1,<<"lsnr">> => -21.5,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 1,<<"rssi">> => -109,<<"rssi">> => -129,<<"size">> => 29,<<"stat">> =>
1,<<"tmst">> => 3122918038}} from 12291671073248440251 on 35152
2022-06-27 21:15:56.854 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:15:56.942 1 [info] <0.7135.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:15:56.943 1 [info] <0.7135.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.7134.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:15:57.023 1 [error] <0.7134.1>@http2_client:handle_settings:822
gen_server <0.7134.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:15:57.025 1 [error] <0.7134.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7134.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:15:57.025 1 [error] <0.7135.1>@Undefined:Undefined:Undefined
gen_server <0.7135.1> terminated with reason: connection_down
2022-06-27 21:15:57.026 1 [error] <0.7135.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7135.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:15:57.026 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7135.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:15:57.026 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:15:57.027 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:15:57.027 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:15:57.029 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7134.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],}],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6265>,socket_mon =>
#Ref<0.155928093.3974365185.42134>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7135.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 21:15:57.029 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7135.1>,connection_down}
2022-06-27 21:15:59.188 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:16:06.981 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:16:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:16:06.981 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:16:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:16:06.982 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6078,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:16:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:16:07.029 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:16:07.309 1 [info] <0.7166.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:16:07.310 1 [info] <0.7166.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.7165.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:16:07.583 1 [error] <0.7165.1>@http2_client:handle_settings:822
gen_server <0.7165.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```



```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 21:16:07.585 1 [error] <0.7165.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7165.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 21:16:07.587 1 [error] <0.7166.1>@Undefined:Undefined:Undefined
gen_server <0.7166.1> terminated with reason: connection_down
2022-06-27 21:16:07.588 1 [error] <0.7166.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7166.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:16:07.589 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7166.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:16:07.590 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:16:07.591 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:16:07.591 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:16:07.595 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7165.1>,{function_clause,
[{http2_client,handle_settings,
[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"18.228.158.83">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6272>,socket_mon =>
#Ref<0.155928093.3974365185.42532>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7166.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 21:16:07.596 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7166.1>,connection_down}
2022-06-27 21:16:08.143 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
111DptSHp1XDZL4au7BpxSrv8EwetHr38tfN5NKRYuZWWZ7J5F6" informed us of
our observed address "/ip4/80.77.186.186/tcp/16303"
2022-06-27 21:16:09.332 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:16:15.420 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 3,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAFujtUAOgYAMhMzCWvIThsADjZzAqEnZ76SML5PWbBtPEThf3uG4B
VU03oG/sO1Q==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
-297,<<"freq">> => 867.1,<<"jver">> => 1,<<"lsnr">> => 0.8,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -107,<<"rssi_s">>
=> -109,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 3141493353}}} from
12291671073248440251 on 35152
2022-06-27 21:16:17.594 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

```
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:16:17.864 1 [info] <0.7208.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:16:17.866 1 [info] <0.7208.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.7207.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:16:18.134 1 [error] <0.7207.1>@http2_client:handle_settings:822
gen_server <0.7207.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:16:18.135 1 [error] <0.7207.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7207.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:16:18.136 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7208.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:16:18.136 1 [error] <0.7208.1>@Undefined:Undefined:Undefined
gen_server <0.7208.1> terminated with reason: connection_down
2022-06-27 21:16:18.136 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 21:16:18.136 1 [error] <0.7208.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.7208.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:16:18.137 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 21:16:18.138 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:16:18.139 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.7207.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "13.125.32.225",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6278>,socket\_mon => #Ref<0.155928093.3974365185.43001>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.7208.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}]}

2022-06-27 21:16:18.140 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.7208.1>,connection\_down}

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2022-06-27 21:16:19.471 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:16:28.141 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:16:28.369 1 [info] <0.7225.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:16:28.370 1 [info] <0.7225.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.7224.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:16:28.590 1 [error] <0.7224.1>@http2_client:handle_settings:822
gen_server <0.7224.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:16:28.591 1 [error] <0.7224.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7224.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:16:28.591 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7225.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:16:28.592 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:16:28.592 1 [error] <0.7225.1>@Undefined:Undefined:Undefined
gen_server <0.7225.1> terminated with reason: connection_down
2022-06-27 21:16:28.592 1 [error] <0.7225.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7225.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:16:28.592 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:16:28.592 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:16:28.594 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7224.1>},{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.215.75.202">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6279>,socket_mon =>
#Ref<0.155928093.3974365185.43315>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7225.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 21:16:28.595 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7225.1>,connection_down}
2022-06-27 21:16:29.622 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:16:36.978 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:16:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:16:36.979 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:16:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:16:36.980 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6082,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:16:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:16:38.595 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:16:38.749 1 [info] <0.7228.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:16:38.750 1 [info] <0.7228.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.7227.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:16:38.891 1 [error] <0.7227.1>@http2_client:handle_settings:822
gen_server <0.7227.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 21:16:38.892 1 [error] <0.7227.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7227.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 21:16:38.892 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7228.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:16:38.892 1 [error] <0.7228.1>@Undefined:Undefined:Undefined
gen_server <0.7228.1> terminated with reason: connection_down
2022-06-27 21:16:38.893 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:16:38.893 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:16:38.893 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:16:38.893 1 [error] <0.7228.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7228.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:16:38.894 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7227.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```



```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.13.130.184">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6280>,socket_mon =>
#Ref<0.155928093.3973578754.147646>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7228.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 21:16:38.895 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7228.1>,connection_down} 2022-06-27
21:16:39.768 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:16:48.896 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:16:49.163 1 [info] <0.7231.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:16:49.164 1 [info] <0.7231.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.7230.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 21:16:49.420 1 [error] <0.7230.1>@http2_client:handle_settings:822
gen_server <0.7230.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:16:49.422 1 [error] <0.7230.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7230.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:16:49.422 1 [error] <0.7231.1>@Undefined:Undefined:Undefined
gen_server <0.7231.1> terminated with reason: connection_down
2022-06-27 21:16:49.422 1 [error] <0.7231.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7231.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:16:49.423 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7231.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:16:49.423 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:16:49.424 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:16:49.424 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:16:49.425 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.7230.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6281>,socket_mon =>
#Ref<0.155928093.3973578754.147708>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7231.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:16:49.426 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7231.1>,connection_down}
2022-06-27 21:16:49.908 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:16:59.427 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:16:59.698 1 [info] <0.7234.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:16:59.699 1 [info] <0.7234.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.7233.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:16:59.958 1 [error] <0.7233.1>@http2_client:handle_settings:822
gen_server <0.7233.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:16:59.959 1 [error] <0.7233.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7233.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:16:59.961 1 [error] <0.7234.1>@Undefined:Undefined:Undefined
gen_server <0.7234.1> terminated with reason: connection_down
2022-06-27 21:16:59.961 1 [error] <0.7234.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7234.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:16:59.962 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7234.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:16:59.962 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:16:59.962 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 21:16:59.963 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:16:59.964 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7233.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6282>,socket_mon =>
#Ref<0.155928093.3973578754.147765>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7234.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}]}
2022-06-27 21:16:59.965 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7234.1>,connection_down}
2022-06-27 21:17:00.054 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:17:06.987 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:17:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

```
2022-06-27 21:17:06.987 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:17:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:17:06.989 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6086,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:17:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:17:07.127 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 1,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAFC+q3tAlI9AJuMNB4/1ek9+e+vrwaa30INGS6HIH/OAjbguvcHCN8x/
9stOXG2GA==>>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
348,<<"freq">> => 868.3,<<"jver">> => 1,<<"lsnr">> => -14.8,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 1,<<"rssi">> => -109,<<"rssi">>
=> -123,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 3193195642}} from
12291671073248440251 on 35152
2022-06-27 21:17:09.965 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:17:10.198 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:17:10.233 1 [info] <0.7244.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:17:10.234 1 [info] <0.7244.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.7243.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:17:10.492 1 [error] <0.7243.1>@http2_client:handle_settings:822
gen_server <0.7243.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 21:17:10.493 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7244.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:17:10.494 1 [error] <0.7243.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7243.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:17:10.494 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:17:10.494 1 [error] <0.7244.1>@Undefined:Undefined:Undefined
gen_server <0.7244.1> terminated with reason: connection_down
2022-06-27 21:17:10.495 1 [error] <0.7244.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7244.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:17:10.495 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:17:10.495 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:17:10.496 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7243.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.209.94.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6283>,socket_mon =>
#Ref<0.155928093.3973316611.209400>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7244.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:17:10.496 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7244.1>,connection_down} 2022-06-27
21:17:20.345 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:17:20.498 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:17:21.704 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1642.0>
2022-06-27 21:17:30.495 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:17:36.979 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:17:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:17:36.979 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
```



```
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:17:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:17:36.981 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6090,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:17:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:17:40.641 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:17:50.502 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:17:50.502 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:17:50.504 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7294.1>,timeout}
2022-06-27 21:17:50.507 1 [error] <0.7294.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7294.1> with 0 neighbours exited with reason: timeout
in gen_server:init_it/6 line 407
2022-06-27 21:17:50.804 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:18:00.504 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:18:00.733 1 [info] <0.7303.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:18:00.734 1 [info] <0.7303.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.7302.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:18:00.945 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:18:00.958 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7303.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:18:00.959 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:18:00.960 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:18:00.982 1 [error] <0.7302.1>@http2_client:handle_settings:822
gen_server <0.7302.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:18:00.983 1 [error] <0.7302.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7302.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:18:00.997 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:18:00.997 1 [error] <0.7303.1>@Undefined:Undefined:Undefined
gen_server <0.7303.1> terminated with reason: connection_down
2022-06-27 21:18:00.998 1 [error] <0.7303.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7303.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:18:00.999 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7302.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6290>,socket_mon =>
#Ref<0.155928093.3973578754.148487>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7303.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 21:18:01.000 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7303.1>,connection_down}
2022-06-27 21:18:06.985 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:18:06 GMT">>,<<"txnb">> => 0}} from
```

```
12291671073248440251 on 35152
2022-06-27 21:18:06.986 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:18:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:18:06.989 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6094,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:18:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:18:11.000 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:18:11.091 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:18:11.154 1 [info] <0.7306.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:18:11.156 1 [info] <0.7306.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.7305.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:18:11.306 1 [error] <0.7305.1>@http2_client:handle_settings:822
gen_server <0.7305.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:18:11.309 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7306.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
{file,"miner_poc_grpc_client_statem.erl"},{line,721}}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 21:18:11.310 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:18:11.311 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:18:11.311 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:18:11.311 1 [error] <0.7305.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7305.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:18:11.311 1 [error] <0.7306.1>@Undefined:Undefined:Undefined
gen_server <0.7306.1> terminated with reason: connection_down
2022-06-27 21:18:11.312 1 [error] <0.7306.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7306.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:18:11.312 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7305.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.13.130.184">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6291>,socket_mon =>
#Ref<0.155928093.3973578754.148538>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7306.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 21:18:11.313 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7306.1>,connection_down} 2022-06-27
21:18:21.248 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:18:21.314 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:18:21.538 1 [info] <0.7346.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:18:21.541 1 [info] <0.7346.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.7342.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:18:21.754 1 [error] <0.7342.1>@http2_client:handle_settings:822
gen_server <0.7342.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:18:21.756 1 [error] <0.7342.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7342.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 21:18:21.757 1 [error] <0.7346.1>@Undefined:Undefined:Undefined
gen_server <0.7346.1> terminated with reason: connection_down
2022-06-27 21:18:21.757 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7346.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:18:21.757 1 [error] <0.7346.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7346.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:18:21.757 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:18:21.759 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:18:21.759 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:18:21.761 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7342.1>,{function_clause,
[{http2_client,handle_settings,
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
```

```
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6292>,socket_mon =>
#Ref<0.155928093.3973316611.209754>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7346.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:18:21.762 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7346.1>,connection_down} 2022-06-27
21:18:31.399 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:18:31.762 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:18:31.977 1 [info] <0.7354.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:18:31.977 1 [info] <0.7354.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.7353.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:18:32.185 1 [error] <0.7353.1>@http2_client:handle_settings:822
gen_server <0.7353.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```



2022-06-27 21:18:32.186 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.7354.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}

2022-06-27 21:18:32.187 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 21:18:32.187 1 [error] <0.7353.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.7353.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:18:32.188 1 [error] <0.7354.1>@Undefined:Undefined:Undefined  
gen\_server <0.7354.1> terminated with reason: connection\_down

2022-06-27 21:18:32.188 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 21:18:32.188 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 21:18:32.189 1 [error] <0.7354.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.7354.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:18:32.192 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.7353.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

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16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.89.130.114">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6293>,socket_mon =>
#Ref<0.155928093.3974365185.45874>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7354.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:18:32.193 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7354.1>,connection_down}
2022-06-27 21:18:36.985 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:18:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:18:36.986 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:18:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:18:36.988 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6098,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:18:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:18:41.538 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:18:42.191 1 [info]
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<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:18:42.268 1 [info] <0.7357.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:18:42.270 1 [info] <0.7357.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.7356.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:18:42.347 1 [error] <0.7356.1>@http2_client:handle_settings:822
gen_server <0.7356.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:18:42.348 1 [error] <0.7356.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7356.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:18:42.350 1 [error] <0.7357.1>@Undefined:Undefined:Undefined
gen_server <0.7357.1> terminated with reason: connection_down
2022-06-27 21:18:42.350 1 [error] <0.7357.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7357.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:18:42.350 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7357.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

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[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:18:42.351 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:18:42.351 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:18:42.351 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:18:42.353 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7356.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6294>,socket_mon =>
#Ref<0.155928093.3974365185.46036>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7357.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}}
2022-06-27 21:18:42.353 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
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in setup state: Type: info, Msg: {'EXIT',<0.7357.1>,connection_down}
2022-06-27 21:18:51.685 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:18:52.354 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:18:52.422 1 [info] <0.7360.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:18:52.424 1 [info] <0.7360.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.7359.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:18:52.482 1 [error] <0.7359.1>@http2_client:handle_settings:822
gen_server <0.7359.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:18:52.483 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7360.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:18:52.483 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
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<<"stream create failed">>}}
2022-06-27 21:18:52.483 1 [error] <0.7359.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7359.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:18:52.483 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:18:52.483 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:18:52.483 1 [error] <0.7360.1>@Undefined:Undefined:Undefined
gen_server <0.7360.1> terminated with reason: connection_down
2022-06-27 21:18:52.484 1 [error] <0.7360.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7360.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:18:52.485 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7359.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"3.72.215.7">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6295>,socket_mon =>
#Ref<0.155928093.3974365185.46225>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7360.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
```

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{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 21:18:52.485 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7360.1>,connection_down}
2022-06-27 21:19:01.831 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:19:02.485 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:19:02.814 1 [info] <0.7363.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:19:02.815 1 [info] <0.7363.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.7362.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:19:03.136 1 [error] <0.7362.1>@http2_client:handle_settings:822
gen_server <0.7362.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:19:03.136 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7363.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

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{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 21:19:03.136 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:19:03.137 1 [error] <0.7362.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7362.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:19:03.137 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:19:03.137 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:19:03.137 1 [error] <0.7363.1>@Undefined:Undefined:Undefined
gen_server <0.7363.1> terminated with reason: connection_down
2022-06-27 21:19:03.138 1 [error] <0.7363.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7363.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:19:03.139 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7362.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6296>,socket_mon =>
#Ref<0.155928093.3974365185.46428>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7363.1>,server_window => 65528,state =>
```



```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 21:19:03.139 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7363.1>,connection_down}
2022-06-27 21:19:06.991 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:19:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:19:06.991 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:19:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:19:06.993 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6102,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:19:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:19:11.985 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:19:13.140 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:19:13.218 1 [info] <0.7366.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:19:13.219 1 [info] <0.7366.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.7365.1>,>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:19:13.289 1 [error] <0.7365.1>@http2_client:handle_settings:822
gen_server <0.7365.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:19:13.290 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7366.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:19:13.291 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:19:13.292 1 [error] <0.7365.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7365.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:19:13.292 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:19:13.292 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:19:13.293 1 [error] <0.7366.1>@Undefined:Undefined:Undefined
gen_server <0.7366.1> terminated with reason: connection_down
2022-06-27 21:19:13.294 1 [error] <0.7366.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7366.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

2022-06-27 21:19:13.296 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7365.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6297>,socket_mon =>
#Ref<0.155928093.3974365185.46620>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7366.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 21:19:13.297 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7366.1>,connection_down}
```

2022-06-27 21:19:18.218 1 [info]

```
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11ZD8AwjLHL9WCWfyf4nysk9mQCnXDnGcZWCSHoD55EMgoJ2HH5" informed
us of our observed address "/ip4/80.77.186.186/tcp/63790"
```

2022-06-27 21:19:22.134 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 21:19:23.295 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
```

```
{gateway_validators_req_v1_pb,1}
```

2022-06-27 21:19:23.532 1 [info] <0.7415.1>@grpc\_client\_stream\_custom:init:

```
{131,9} init stream for RPC validators and type unary
2022-06-27 21:19:23.533 1 [info] <0.7415.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.7405.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:19:23.777 1 [error] <0.7405.1>@http2_client:handle_settings:822
gen_server <0.7405.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:19:23.779 1 [error] <0.7405.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7405.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:19:23.779 1 [error] <0.7415.1>@Undefined:Undefined:Undefined
gen_server <0.7415.1> terminated with reason: connection_down
2022-06-27 21:19:23.779 1 [error] <0.7415.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7415.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:19:23.780 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7415.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:19:23.780 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:19:23.781 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:19:23.781 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:19:23.783 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7405.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6308>,socket_mon =>
#Ref<0.155928093.3974365185.47037>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7415.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 21:19:23.784 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7415.1>,connection_down}
2022-06-27 21:19:32.281 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 21:19:33.784 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:19:34.016 1 [info] <0.7433.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:19:34.018 1 [info] <0.7433.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.7432.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:19:34.242 1 [error] <0.7432.1>@http2_client:handle_settings:822
gen_server <0.7432.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:19:34.244 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7433.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:19:34.244 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:19:34.244 1 [error] <0.7432.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7432.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:19:34.245 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:19:34.245 1 [error] <0.7433.1>@Undefined:Undefined:Undefined
gen_server <0.7433.1> terminated with reason: connection_down
2022-06-27 21:19:34.245 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:19:34.245 1 [error] <0.7433.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7433.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:19:34.247 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7432.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6309>,socket_mon =>
#Ref<0.155928093.3974365185.47435>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7433.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 21:19:34.248 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.7433.1>,connection\_down}  
2022-06-27 21:19:36.993 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:19:36 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 21:19:36.994 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:19:36 GMT">>,<<"txnb">> => 0}  
2022-06-27 21:19:36.995 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6106,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:19:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 21:19:42.425 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:19:44.247 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "35.82.239.134":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:19:44.474 1 [info] <0.7440.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 21:19:44.475 1 [info] <0.7440.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"35.82.239.134">>,http\_connection => <0.7439.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 21:19:44.699 1 [error] <0.7439.1>@http2\_client:handle\_settings:822 gen\_server <0.7439.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 21:19:44.700 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:



```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7440.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:19:44.700 1 [error] <0.7439.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7439.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:19:44.701 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:19:44.701 1 [error] <0.7440.1>@Undefined:Undefined:Undefined
gen_server <0.7440.1> terminated with reason: connection_down
2022-06-27 21:19:44.701 1 [error] <0.7440.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7440.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:19:44.701 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:19:44.701 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:19:44.703 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7439.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6310>,socket_mon =>
#Ref<0.155928093.3974365185.47668>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7440.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:19:44.703 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7440.1>,connection_down} 2022-06-27
21:19:52.578 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:19:54.704 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:19:54.937 1 [info] <0.7443.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:19:54.939 1 [info] <0.7443.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.7442.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:19:55.162 1 [error] <0.7442.1>@http2_client:handle_settings:822
gen_server <0.7442.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:19:55.163 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7443.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:19:55.163 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:19:55.164 1 [error] <0.7442.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7442.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:19:55.164 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:19:55.164 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:19:55.164 1 [error] <0.7443.1>@Undefined:Undefined:Undefined
gen_server <0.7443.1> terminated with reason: connection_down
2022-06-27 21:19:55.164 1 [error] <0.7443.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7443.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:19:55.165 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7442.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6311>,socket_mon =>
#Ref<0.155928093.3973054468.222611>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7443.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:19:55.166 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7443.1>,connection_down}
2022-06-27 21:20:02.725 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:20:05.167 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:20:05.377 1 [info] <0.7452.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:20:05.378 1 [info] <0.7452.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.7451.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:20:05.585 1 [error] <0.7451.1>@http2_client:handle_settings:822
gen_server <0.7451.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:20:05.585 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7452.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:20:05.586 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:20:05.586 1 [error] <0.7451.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7451.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:20:05.586 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:20:05.586 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:20:05.588 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7451.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6312>,socket_mon =>
#Ref<0.155928093.3973054468.222662>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7452.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:20:05.588 1 [error] <0.7452.1>@Undefined:Undefined:Undefined
gen_server <0.7452.1> terminated with reason: connection_down
2022-06-27 21:20:05.588 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7452.1>,connection_down}
2022-06-27 21:20:05.589 1 [error] <0.7452.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7452.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:20:06.993 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:20:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:20:06.994 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:20:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:20:06.995 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6110,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:20:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:20:07.917 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.7454.1>, Ref:
#Ref<0.155928093.3974365185.48165>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ" 2022-06-27
21:20:12.868 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:20:15.589 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:20:15.825 1 [info] <0.7459.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:20:15.826 1 [info] <0.7459.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.7458.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:20:16.056 1 [error] <0.7458.1>@http2_client:handle_settings:822
gen_server <0.7458.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:20:16.059 1 [error] <0.7458.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7458.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:20:16.060 1 [error] <0.7459.1>@Undefined:Undefined:Undefined
gen_server <0.7459.1> terminated with reason: connection_down
2022-06-27 21:20:16.061 1 [error] <0.7459.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7459.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 21:20:16.062 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7459.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
```

```
2022-06-27 21:20:16.062 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 21:20:16.063 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 21:20:16.063 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 21:20:16.065 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7458.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6313>,socket_mon =>
#Ref<0.155928093.3973054468.222694>,state => open,stream_count =>
```



```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7459.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}
2022-06-27 21:20:16.066 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7459.1>,connection_down}
2022-06-27 21:20:18.934 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:20:23.015 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:20:26.066 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:20:26.300 1 [info] <0.7474.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:20:26.302 1 [info] <0.7474.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.7472.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:20:26.530 1 [error] <0.7472.1>@http2_client:handle_settings:822
gen_server <0.7472.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:20:26.532 1 [error] <0.7472.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7472.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 21:20:26.532 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7474.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:20:26.533 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:20:26.533 1 [error] <0.7474.1>@Undefined:Undefined:Undefined
gen_server <0.7474.1> terminated with reason: connection_down
2022-06-27 21:20:26.533 1 [error] <0.7474.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7474.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:20:26.534 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:20:26.534 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:20:26.536 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7472.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
```

```
{<<":authority">>,<<"13.215.75.202">>},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6314>,socket_mon =>
#Ref<0.155928093.3974365185.48725>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7474.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:20:26.536 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7474.1>,connection_down}
2022-06-27 21:20:33.158 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:20:36.537 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:20:36.765 1 [info] <0.7502.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:20:36.767 1 [info] <0.7502.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.7501.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:20:36.992 1 [error] <0.7501.1>@http2_client:handle_settings:822
gen_server <0.7501.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:20:36.995 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7502.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:20:36.995 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:20:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:20:36.995 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:20:36.995 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:20:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:20:36.995 1 [error] <0.7501.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7501.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:20:36.996 1 [error] <0.7502.1>@Undefined:Undefined:Undefined
gen_server <0.7502.1> terminated with reason: connection_down
2022-06-27 21:20:36.996 1 [error] <0.7502.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7502.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:20:36.997 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 21:20:36.997 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:20:36.997 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6114,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:20:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:20:36.999 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7501.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6315>,socket_mon =>
#Ref<0.155928093.3973316611.210194>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7502.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}}
2022-06-27 21:20:36.999 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7502.1>,connection_down} 2022-06-27
21:20:43.304 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
```

```
2022-06-27 21:20:47.000 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:20:47.216 1 [info] <0.7509.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:20:47.217 1 [info] <0.7509.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.7508.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:20:47.434 1 [error] <0.7508.1>@http2_client:handle_settings:822
gen_server <0.7508.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:20:47.435 1 [error] <0.7508.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7508.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:20:47.436 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7509.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:20:47.436 1 [error] <0.7509.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.7509.1> terminated with reason: connection_down
2022-06-27 21:20:47.436 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:20:47.436 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:20:47.436 1 [error] <0.7509.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7509.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811 2022-06-27
21:20:47.437 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:20:47.438 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7508.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"44.229.159.157">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6316>,socket_mon =>
#Ref<0.155928093.3974365185.49452>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7509.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 21:20:47.439 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.7509.1>,connection\_down}  
2022-06-27 21:20:53.458 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:20:57.440 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.104.32.11":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:20:57.765 1 [info] <0.7512.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 21:20:57.766 1 [info] <0.7512.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.104.32.11">>,http\_connection => <0.7511.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 21:20:58.087 1 [error] <0.7511.1>@http2\_client:handle\_settings:822 gen\_server <0.7511.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 21:20:58.087 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.7512.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]]  
2022-06-27 21:20:58.088 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New



```
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:20:58.088 1 [error] <0.7511.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7511.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:20:58.088 1 [error] <0.7512.1>@Undefined:Undefined:Undefined
gen_server <0.7512.1> terminated with reason: connection_down
2022-06-27 21:20:58.088 1 [error] <0.7512.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7512.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:20:58.089 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:20:58.089 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:20:58.091 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7511.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6317>,socket_mon =>
#Ref<0.155928093.3973316611.210280>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7512.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:20:58.091 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7512.1>,connection_down}
2022-06-27 21:21:03.615 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:21:06.999 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:21:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:21:07.001 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:21:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:21:07.003 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6118,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:21:06 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:21:08.092 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:21:08.191 1 [info] <0.7516.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:21:08.193 1 [info] <0.7516.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.7515.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:21:08.282 1 [error] <0.7515.1>@http2_client:handle_settings:822
gen_server <0.7515.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:21:08.283 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7516.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:21:08.283 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:21:08.283 1 [error] <0.7515.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7515.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:21:08.284 1 [error] <0.7516.1>@Undefined:Undefined:Undefined
gen_server <0.7516.1> terminated with reason: connection_down
2022-06-27 21:21:08.284 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:21:08.284 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:21:08.284 1 [error] <0.7516.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7516.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:21:08.285 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7515.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6318>,socket_mon =>
#Ref<0.155928093.3974365185.49876>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7516.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:21:08.286 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7516.1>,connection_down}
2022-06-27 21:21:13.758 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:21:18.287 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:21:23.897 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:21:34.048 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:21:36.990 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
```

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0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:21:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:21:36.991 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:21:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:21:36.992 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6122,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:21:36 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:21:44.191 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:21:48.292 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 21:21:48.293 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:21:48.294 1 [error] <0.7523.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7523.1> with 0 neighbours exited with reason: timeout
in gen_server:init_it/6 line 407
2022-06-27 21:21:48.295 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7523.1>,timeout}
2022-06-27 21:21:54.351 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:21:58.296 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:21:58.448 1 [info] <0.7566.1>@grpc_client_stream_custom:init:
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{131,9} init stream for RPC validators and type unary
2022-06-27 21:21:58.449 1 [info] <0.7566.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.7565.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:21:58.594 1 [error] <0.7565.1>@http2_client:handle_settings:822
gen_server <0.7565.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:21:58.595 1 [error] <0.7565.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7565.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:21:58.595 1 [error] <0.7566.1>@Undefined:Undefined:Undefined
gen_server <0.7566.1> terminated with reason: connection_down
2022-06-27 21:21:58.595 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7566.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:21:58.596 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 21:21:58.596 1 [error] <0.7566.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.7566.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:21:58.596 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 21:21:58.596 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 21:21:58.597 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.7565.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}]},host => "3.137.92.200",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6320>,socket\_mon =>  
#Ref<0.155928093.3973316611.210455>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.7566.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 21:21:58.598 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.7566.1>,connection\_down}

2022-06-27 21:22:04.492 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

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2022-06-27 21:22:06.991 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:22:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:22:06.991 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:22:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:22:06.992 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6126,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:22:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:22:08.599 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:22:08.874 1 [info] <0.7569.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:22:08.875 1 [info] <0.7569.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.7568.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,grpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:22:09.145 1 [error] <0.7568.1>@http2_client:handle_settings:822
gen_server <0.7568.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:22:09.147 1 [error] <0.7568.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7568.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```



```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:22:09.147 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7569.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:22:09.147 1 [error] <0.7569.1>@Undefined:Undefined:Undefined
gen_server <0.7569.1> terminated with reason: connection_down
2022-06-27 21:22:09.147 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:22:09.148 1 [error] <0.7569.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7569.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:22:09.149 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:22:09.149 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:22:09.152 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7568.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"18.228.158.83">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6321>,socket_mon =>
#Ref<0.155928093.3974365185.51369>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7569.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:22:09.152 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7569.1>,connection_down} 2022-06-27
21:22:14.635 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:22:19.152 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:22:19.378 1 [info] <0.7575.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:22:19.379 1 [info] <0.7575.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.7572.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:22:19.592 1 [error] <0.7572.1>@http2_client:handle_settings:822
gen_server <0.7572.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:22:19.594 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7575.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:22:19.594 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:22:19.594 1 [error] <0.7572.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7572.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:22:19.594 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:22:19.595 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:22:19.595 1 [error] <0.7575.1>@Undefined:Undefined:Undefined
gen_server <0.7575.1> terminated with reason: connection_down
2022-06-27 21:22:19.595 1 [error] <0.7575.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7575.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:22:19.596 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7572.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6322>,socket_mon =>
#Ref<0.155928093.3973578754.150323>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7575.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 21:22:19.597 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7575.1>,connection_down}
2022-06-27 21:22:21.705 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1639.0>
2022-06-27 21:22:24.784 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:22:29.597 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:22:29.862 1 [info] <0.7584.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:22:29.864 1 [info] <0.7584.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.7583.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 21:22:30.126 1 [error] <0.7583.1>@http2_client:handle_settings:822
gen_server <0.7583.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:22:30.127 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7584.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:22:30.127 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:22:30.128 1 [error] <0.7583.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7583.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:22:30.128 1 [error] <0.7584.1>@Undefined:Undefined:Undefined
gen_server <0.7584.1> terminated with reason: connection_down
2022-06-27 21:22:30.128 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:22:30.128 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:22:30.128 1 [error] <0.7584.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7584.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:22:30.130 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7583.1>,{function_clause,
[ {http2_client,handle_settings,
[ [],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"18.228.115.118">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6323>,socket_mon =>
#Ref<0.155928093.3974365185.51734>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7584.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:22:30.131 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7584.1>,connection_down}
```

```
2022-06-27 21:22:34.935 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 21:22:36.994 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:22:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

```
2022-06-27 21:22:36.995 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:22:36 GMT">>,<<"txnb">> => 0}
```

2022-06-27 21:22:36.996 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6130,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:22:36 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 21:22:40.130 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.38.70.101":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 21:22:45.075 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:22:55.218 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:23:05.365 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:23:06.994 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:23:06 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 21:23:06.995 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:23:06 GMT">>,<<"txnb">> => 0}

2022-06-27 21:23:06.996 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6134,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:23:06 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 21:23:08.867 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"rxpk">> => [#<<"chan">> => 4,<<"codr">> => <<"4/5">>,<<"data">> => <<"QDDaAAFmLxCoAC5wAOxXYxTKGvd2/40RyG+KEknx3hh/pv/1uUAa3eeQUOK6NcYhFvxYiQ==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> => -847,<<"freq">> => 867.3,<<"jver">> => 1,<<"lsnr">> => -9.8,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">>

```
=> 0,<<"rssi">> => -108,<<"rssi">> => -117,<<"size">> => 52,<<"stat">> =>
1,<<"tmst">> => 3554929123}} from 12291671073248440251 on 35152
2022-06-27 21:23:10.134 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}]
2022-06-27 21:23:10.134 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:23:10.135 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7607.1>,timeout}
2022-06-27 21:23:10.135 1 [error] <0.7607.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7607.1> with 0 neighbours exited with reason: timeout
in gen_server:init_it/6 line 407
2022-06-27 21:23:15.501 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:23:20.137 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:23:20.299 1 [info] <0.7623.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:23:20.301 1 [info] <0.7623.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.7622.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:23:20.453 1 [error] <0.7622.1>@http2_client:handle_settings:822
gen_server <0.7622.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```



```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:23:20.453 1 [error] <0.7622.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7622.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:23:20.455 1 [error] <0.7623.1>@Undefined:Undefined:Undefined
gen_server <0.7623.1> terminated with reason: connection_down
2022-06-27 21:23:20.455 1 [error] <0.7623.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7623.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:23:20.456 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7623.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:23:20.456 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:23:20.456 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:23:20.457 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:23:20.458 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7622.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6325>,socket_mon =>
#Ref<0.155928093.3973578754.150681>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7623.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:23:20.458 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7623.1>,connection_down}
2022-06-27 21:23:25.644 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:23:26.944 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.7632.1>, Ref:
#Ref<0.155928093.3974365185.53241>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 21:23:30.459 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:23:30.775 1 [info] <0.7637.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:23:30.777 1 [info] <0.7637.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.7636.1>,scheme =>
```

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<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:23:31.094 1 [error] <0.7636.1>@http2_client:handle_settings:822
gen_server <0.7636.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:23:31.096 1 [error] <0.7636.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7636.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:23:31.097 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7637.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:23:31.097 1 [error] <0.7637.1>@Undefined:Undefined:Undefined
gen_server <0.7637.1> terminated with reason: connection_down
2022-06-27 21:23:31.097 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:23:31.098 1 [error] <0.7637.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7637.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:23:31.099 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 21:23:31.100 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:23:31.106 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.7636.1>,{function\_clause,

[{http2\_client,handle\_settings,

[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,

{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,

{<<"content-type">>,<<"application/grpc+proto">>}},{56,

{<<":authority">>,<<"13.237.155.172">>}},{63,<<":path">>,<<"/helium.gateway/

validators">>}}],host => "13.237.155.172",last\_stream => 1,owner =>

<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size

=> 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},server\_window => 65528,socket => #Port<0.6326>,socket\_mon =>

#Ref<0.155928093.3974365185.53364>,state => open,stream\_count =>

1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>

1,owner => <0.7637.1>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>

gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],

{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],

{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],

{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 21:23:31.107 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.7637.1>,connection\_down}

2022-06-27 21:23:35.795 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:23:37.002 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA

#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>

1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>

<<"2022-06-27 21:23:36 GMT">>,<<"txnb">> => 0}} from

12291671073248440251 on 35152

2022-06-27 21:23:37.003 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:23:36 GMT">>,<<"txnb">> => 0}

2022-06-27 21:23:37.005 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway

#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6138,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:23:36 GMT">>,<<"txnb">> =>

0},rtt\_samples=[],rtt=5000000}

2022-06-27 21:23:38.323 1 [info] <0.1662.0>@blockchain\_worker:handle\_info: {673,53} block sync down: normal

2022-06-27 21:23:41.102 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.207.131.103":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 21:23:41.366 1 [info] <0.7649.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 21:23:41.367 1 [info] <0.7649.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"54.207.131.103">>,http\_connection => <0.7647.1>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}},name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 21:23:41.628 1 [error] <0.7647.1>@http2\_client:handle\_settings:822

gen\_server <0.7647.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 21:23:41.629 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.7649.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

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[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 21:23:41.629 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:23:41.630 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:23:41.630 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:23:41.631 1 [error] <0.7647.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7647.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:23:41.631 1 [error] <0.7649.1>@Undefined:Undefined:Undefined
gen_server <0.7649.1> terminated with reason: connection_down
2022-06-27 21:23:41.632 1 [error] <0.7649.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7649.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:23:41.632 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7647.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

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16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6327>,socket_mon =>
#Ref<0.155928093.3973578754.150873>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7649.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:23:41.633 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7649.1>,connection_down} 2022-06-27
21:23:45.941 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:23:51.633 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:23:56.088 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:24:06.221 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:24:07.006 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:24:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:24:07.006 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:24:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:24:07.008 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6142,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:24:06 GMT">>,<<"txnb">> =>
```

```
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:24:16.365 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:24:21.637 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:24:21.638 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:24:21.640 1 [error] <0.7672.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7672.1> with 0 neighbours exited with reason: timeout
in gen_server:init_it/6 line 407
2022-06-27 21:24:21.640 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7672.1>,timeout}
2022-06-27 21:24:26.511 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:24:31.640 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:24:31.958 1 [info] <0.7680.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:24:31.960 1 [info] <0.7680.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.7679.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:24:32.274 1 [error] <0.7679.1>@http2_client:handle_settings:822
```



```
gen_server <0.7679.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:24:32.275 1 [error] <0.7679.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7679.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:24:32.275 1 [error] <0.7680.1>@Undefined:Undefined:Undefined
gen_server <0.7680.1> terminated with reason: connection_down
2022-06-27 21:24:32.276 1 [error] <0.7680.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7680.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:24:32.276 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7680.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:24:32.277 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:24:32.278 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:24:32.278 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:24:32.280 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7679.1>,{function_clause,
```

```
{http2_client,handle_settings,
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6329>,socket_mon =>
#Ref<0.155928093.3973578754.151048>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7680.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:24:32.281 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7680.1>,connection_down}
2022-06-27 21:24:33.446 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.7687.1>, Ref:
#Ref<0.155928093.3974365185.55139>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 21:24:36.658 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:24:37.000 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:24:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:24:37.000 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
```

```
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:24:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:24:37.001 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6146,dropped=0,status=#{"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:24:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:24:42.281 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:24:42.613 1 [info] <0.7693.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:24:42.614 1 [info] <0.7693.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{"buffer" => <<>>,<compression" =>
none,<connection" => #{"client" => http2_client,<host" =>
<<"13.211.55.217">>,<http_connection" => <0.7692.1>,<scheme" =>
<<"http">>,<encoder" => gateway_miner_client_pb,<headers_sent" => false,<input" =>
gateway_validators_req_v1_pb,<input_stream" => false,<metadata" => #{},<name" =>
validators,<opts" => [],<output" => gateway_resp_v1_pb,<output_stream" =>
false,<package" => [],<queue" => {[],[]},<response_pending" => false,<rpc" =>
validators,<service" => 'helium.gateway',<state" => idle,<stream_id" => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:24:42.938 1 [error] <0.7692.1>@http2_client:handle_settings:822
gen_server <0.7692.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{"buffer" =>
<<>>,<client_settings" => #{"enable_push" => 0,<header_table_size" =>
4096,<initial_window_size" => ...,...,...}) line 822
2022-06-27 21:24:42.940 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7693.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:24:42.940 1 [error] <0.7692.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7692.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:24:42.941 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:24:42.941 1 [error] <0.7693.1>@Undefined:Undefined:Undefined
gen_server <0.7693.1> terminated with reason: connection_down
2022-06-27 21:24:42.942 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:24:42.942 1 [error] <0.7693.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7693.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:24:42.942 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:24:42.945 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7692.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6330>,socket_mon =>
#Ref<0.155928093.3973578754.151202>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7693.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 21:24:42.946 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7693.1>,connection_down}
2022-06-27 21:24:44.962 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:24:46.808 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:24:49.468 1 [warning]
<0.1646.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/
ip4/18.196.12.213/tcp/443": {exit,{normal,{gen_server,call,[<0.6003.1>,open]}}}
2022-06-27 21:24:52.944 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:24:53.406 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.7719.1>, Ref:
#Ref<0.155928093.3974365185.55790>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 21:24:54.234 1 [info] <0.7721.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:24:54.237 1 [info] <0.7721.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.7718.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:24:54.491 1 [error] <0.7718.1>@http2_client:handle_settings:822
gen_server <0.7718.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:24:54.491 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7721.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:24:54.492 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:24:54.492 1 [error] <0.7718.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7718.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:24:54.493 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:24:54.493 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:24:54.493 1 [error] <0.7721.1>@Undefined:Undefined:Undefined
gen_server <0.7721.1> terminated with reason: connection_down
2022-06-27 21:24:54.493 1 [error] <0.7721.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7721.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:24:54.494 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7718.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6331>,socket_mon =>
#Ref<0.155928093.3973578754.151334>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7721.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 21:24:54.495 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7721.1>,connection_down}
2022-06-27 21:24:56.941 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:25:04.449 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:25:04.495 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:25:04.757 1 [info] <0.7733.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:25:04.759 1 [info] <0.7733.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.7732.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:25:05.011 1 [error] <0.7732.1>@http2_client:handle_settings:822
gen_server <0.7732.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:25:05.011 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7733.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:25:05.011 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:25:05.012 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:25:05.012 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:25:05.012 1 [error] <0.7732.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7732.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:25:05.013 1 [error] <0.7733.1>@Undefined:Undefined:Undefined
gen_server <0.7733.1> terminated with reason: connection_down
2022-06-27 21:25:05.013 1 [error] <0.7733.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7733.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```



2022-06-27 21:25:05.014 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7732.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6332>,socket_mon =>
#Ref<0.155928093.3973578754.151396>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7733.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 21:25:05.014 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7733.1>,connection_down}
```

2022-06-27 21:25:07.001 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:25:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

```
2022-06-27 21:25:07.002 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:25:06 GMT">>,<<"txnb">> => 0}
```

```
2022-06-27 21:25:07.003 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6149,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:25:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:25:07.081 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:25:12.061 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11TGnVZsuMTbBqot8M12p6c5bY2YjSCwy31NJGfEm2MMZS8hnbA" informed us
of our observed address "/ip4/80.77.186.186/tcp/33315"
2022-06-27 21:25:15.015 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:25:15.278 1 [info] <0.7754.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:25:15.281 1 [info] <0.7754.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.7753.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:25:15.533 1 [error] <0.7753.1>@http2_client:handle_settings:822
gen_server <0.7753.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:25:15.533 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7754.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:25:15.534 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:25:15.535 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:25:15.535 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:25:15.535 1 [error] <0.7753.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7753.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:25:15.536 1 [error] <0.7754.1>@Undefined:Undefined:Undefined
gen_server <0.7754.1> terminated with reason: connection_down
2022-06-27 21:25:15.537 1 [error] <0.7754.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7754.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:25:15.538 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7753.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6340>,socket_mon =>
```

```
#Ref<0.155928093.3973578754.151442>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7754.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}]
2022-06-27 21:25:15.539 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7754.1>,connection_down}
2022-06-27 21:25:17.225 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:25:25.537 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:25:25.800 1 [info] <0.7759.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:25:25.801 1 [info] <0.7759.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.7758.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:25:26.068 1 [error] <0.7758.1>@http2_client:handle_settings:822
gen_server <0.7758.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:25:26.070 1 [error] <0.7758.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7758.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:25:26.070 1 [error] <0.7759.1>@Undefined:Undefined:Undefined
gen_server <0.7759.1> terminated with reason: connection_down
2022-06-27 21:25:26.070 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7759.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:25:26.070 1 [error] <0.7759.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7759.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:25:26.070 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:25:26.071 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:25:26.071 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:25:26.072 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7758.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"18.230.8.198">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6341>,socket_mon =>
#Ref<0.155928093.3973578754.151505>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7759.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:25:26.073 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7759.1>,connection_down}
2022-06-27 21:25:27.368 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:25:36.074 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:25:36.392 1 [info] <0.7762.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:25:36.393 1 [info] <0.7762.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.7761.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:25:36.700 1 [error] <0.7761.1>@http2_client:handle_settings:822
gen_server <0.7761.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 21:25:36.702 1 [error] <0.7761.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7761.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:25:36.702 1 [error] <0.7762.1>@Undefined:Undefined:Undefined
gen_server <0.7762.1> terminated with reason: connection_down
2022-06-27 21:25:36.702 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7762.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:25:36.702 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:25:36.702 1 [error] <0.7762.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7762.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:25:36.703 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:25:36.703 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:25:36.705 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7761.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6342>,socket_mon =>
#Ref<0.155928093.3973578754.151545>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7762.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:25:36.706 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7762.1>,connection_down}
2022-06-27 21:25:37.000 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:25:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:25:37.001 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:25:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:25:37.002 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6153,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:25:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:25:37.515 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```



```
2022-06-27 21:25:46.706 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:25:46.927 1 [info] <0.7766.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:25:46.928 1 [info] <0.7766.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.7765.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:25:47.144 1 [error] <0.7765.1>@http2_client:handle_settings:822
gen_server <0.7765.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:25:47.146 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7766.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:25:47.146 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:25:47.147 1 [error] <0.7765.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7765.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:25:47.147 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:25:47.148 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:25:47.148 1 [error] <0.7766.1>@Undefined:Undefined:Undefined
gen_server <0.7766.1> terminated with reason: connection_down
2022-06-27 21:25:47.148 1 [error] <0.7766.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7766.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:25:47.150 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7765.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6343>,socket_mon =>
#Ref<0.155928093.3973578754.151603>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7766.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 21:25:47.151 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.7766.1>,connection\_down}  
2022-06-27 21:25:47.651 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:25:51.794 1 [info] <0.1662.0>@blockchain\_worker:target\_sync: {836,5} targeted block sync starting with Pid: <0.7774.1>, Ref: #Ref<0.155928093.3974365185.57689>, Peer: "/p2p/112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ" 2022-06-27 21:25:57.149 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.39.165.144":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:25:57.412 1 [info] <0.7791.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 21:25:57.414 1 [info] <0.7791.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.39.165.144">>,http\_connection => <0.7788.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 21:25:57.669 1 [error] <0.7788.1>@http2\_client:handle\_settings:822 gen\_server <0.7788.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 21:25:57.672 1 [error] <0.7788.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.7788.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 21:25:57.673 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.7791.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}],

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{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 21:25:57.673 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:25:57.673 1 [error] <0.7791.1>@Undefined:Undefined:Undefined
gen_server <0.7791.1> terminated with reason: connection_down
2022-06-27 21:25:57.674 1 [error] <0.7791.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7791.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:25:57.674 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:25:57.675 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:25:57.677 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7788.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6344>,socket_mon =>
#Ref<0.155928093.3973578754.151686>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7791.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 21:25:57.677 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7791.1>,connection_down}
2022-06-27 21:25:57.804 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:26:02.835 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:26:07.001 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:26:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:26:07.001 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:26:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:26:07.002 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6157,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:26:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:26:07.678 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:26:07.823 1 [info] <0.7801.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:26:07.825 1 [info] <0.7801.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.7800.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:26:07.958 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:26:07.960 1 [error] <0.7800.1>@http2_client:handle_settings:822
gen_server <0.7800.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:26:07.962 1 [error] <0.7800.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7800.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:26:07.963 1 [error] <0.7801.1>@Undefined:Undefined:Undefined
gen_server <0.7801.1> terminated with reason: connection_down
2022-06-27 21:26:07.963 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7801.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:26:07.963 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:26:07.963 1 [error] <0.7801.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7801.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

2022-06-27 21:26:07.963 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 21:26:07.963 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:26:07.965 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.7800.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {54, {<<":authority">>,<<"3.137.92.200">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.137.92.200",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6345>,socket\_mon => #Ref<0.155928093.3973578754.151729>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.7801.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}

2022-06-27 21:26:07.965 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.7801.1>,connection\_down}

2022-06-27 21:26:17.966 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.207.131.103":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 21:26:18.098 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from

12291671073248440251 on 56833

2022-06-27 21:26:18.231 1 [info] <0.7813.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 21:26:18.232 1 [info] <0.7813.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"54.207.131.103">>,http\_connection => <0.7810.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{},name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 21:26:18.488 1 [error] <0.7810.1>@http2\_client:handle\_settings:822 gen\_server <0.7810.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 21:26:18.489 1 [error] <0.7810.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.7810.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 21:26:18.490 1 [error] <0.7813.1>@Undefined:Undefined:Undefined gen\_server <0.7813.1> terminated with reason: connection\_down

2022-06-27 21:26:18.491 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.7813.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]]

2022-06-27 21:26:18.491 1 [error] <0.7813.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.7813.1> with 0 neighbours exited with reason:



```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:26:18.491 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:26:18.492 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:26:18.492 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:26:18.493 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7810.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6346>,socket_mon =>
#Ref<0.155928093.3973578754.151784>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7813.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:26:18.493 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7813.1>,connection_down}
2022-06-27 21:26:28.237 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:26:28.495 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:26:28.759 1 [info] <0.7816.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:26:28.761 1 [info] <0.7816.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.7815.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:26:29.014 1 [error] <0.7815.1>@http2_client:handle_settings:822
gen_server <0.7815.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:26:29.016 1 [error] <0.7815.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7815.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:26:29.018 1 [error] <0.7816.1>@Undefined:Undefined:Undefined
gen_server <0.7816.1> terminated with reason: connection_down
2022-06-27 21:26:29.019 1 [error] <0.7816.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7816.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:26:29.019 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7816.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
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{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:26:29.020 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:26:29.021 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:26:29.021 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:26:29.025 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7815.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6347>,socket_mon =>
#Ref<0.155928093.3973578754.151821>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7816.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 21:26:29.025 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7816.1>,connection_down}
2022-06-27 21:26:37.001 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:26:36 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:26:37.002 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:26:36 GMT">>,<<"txnb">> => 0}
2022-06-27 21:26:37.003 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6161,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:26:36 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:26:38.385 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:26:39.024 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:26:39.109 1 [info] <0.7819.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:26:39.110 1 [info] <0.7819.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:26:39.188 1 [error] <0.7818.1>@http2_client:handle_settings:822
gen_server <0.7818.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:26:39.188 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7819.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:26:39.188 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:26:39.189 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:26:39.189 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:26:39.189 1 [error] <0.7818.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7818.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:26:39.189 1 [error] <0.7819.1>@Undefined:Undefined:Undefined
gen_server <0.7819.1> terminated with reason: connection_down
2022-06-27 21:26:39.189 1 [error] <0.7819.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7819.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:26:39.190 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7818.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6348>,socket_mon =>
#Ref<0.155928093.3974365185.58670>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7819.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:26:39.191 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7819.1>,connection_down}
2022-06-27 21:26:48.535 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:26:49.192 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:26:49.340 1 [info] <0.7822.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:26:49.341 1 [info] <0.7822.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.7821.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 21:26:49.484 1 [error] <0.7821.1>@http2_client:handle_settings:822
gen_server <0.7821.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:26:49.485 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7822.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:26:49.486 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:26:49.486 1 [error] <0.7821.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7821.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:26:49.486 1 [error] <0.7822.1>@Undefined:Undefined:Undefined
gen_server <0.7822.1> terminated with reason: connection_down
2022-06-27 21:26:49.486 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:26:49.486 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:26:49.486 1 [error] <0.7822.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7822.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:26:49.488 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7821.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6349>,socket_mon =>
#Ref<0.155928093.3974365185.58883>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7822.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:26:49.488 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7822.1>,connection_down}
2022-06-27 21:26:58.681 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:26:59.488 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:26:59.714 1 [info] <0.7840.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:26:59.715 1 [info] <0.7840.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.7839.1>,scheme =>
```



```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:26:59.936 1 [error] <0.7839.1>@http2_client:handle_settings:822
gen_server <0.7839.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:26:59.937 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7840.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:26:59.937 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:26:59.938 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:26:59.939 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:26:59.939 1 [error] <0.7839.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7839.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:26:59.940 1 [error] <0.7840.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.7840.1> terminated with reason: connection_down
2022-06-27 21:26:59.941 1 [error] <0.7840.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7840.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:26:59.942 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7839.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6350>,socket_mon =>
#Ref<0.155928093.3974365185.59213>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7840.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 21:26:59.943 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7840.1>,connection_down}
2022-06-27 21:27:07.003 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:27:06 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:27:07.003 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
```

```
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:27:06 GMT">>,<<"txnb">> => 0}
2022-06-27 21:27:07.004 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6165,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:27:06 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:27:08.834 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:27:09.942 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:27:10.101 1 [info] <0.7872.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:27:10.102 1 [info] <0.7872.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.7871.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:27:10.257 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7872.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:27:10.258 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:27:10.258 1 [error] <0.7871.1>@http2_client:handle_settings:822
gen_server <0.7871.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:27:10.258 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:27:10.259 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:27:10.261 1 [error] <0.7871.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7871.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:27:10.262 1 [error] <0.7872.1>@Undefined:Undefined:Undefined
gen_server <0.7872.1> terminated with reason: connection_down
2022-06-27 21:27:10.262 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7871.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6352>,socket_mon =>
#Ref<0.155928093.3974365185.59728>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7872.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}}
2022-06-27 21:27:10.262 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7872.1>,connection_down}
2022-06-27 21:27:10.263 1 [error] <0.7872.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7872.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:27:18.984 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:27:20.261 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:27:20.523 1 [info] <0.7881.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:27:20.524 1 [info] <0.7881.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.7880.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:27:20.783 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7881.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:27:20.784 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:27:20.786 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:27:20.786 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:27:20.783 1 [error] <0.7880.1>@http2_client:handle_settings:822
gen_server <0.7880.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:27:20.789 1 [error] <0.7880.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7880.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:27:20.790 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7880.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6353>,socket_mon =>
```

```
#Ref<0.155928093.3974365185.60034>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7881.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 21:27:20.790 1 [error] <0.7881.1>@Undefined:Undefined:Undefined
gen_server <0.7881.1> terminated with reason: connection_down
2022-06-27 21:27:20.790 1 [error] <0.7881.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7881.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:27:20.792 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7881.1>,connection_down}
2022-06-27 21:27:21.706 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1640.0>
2022-06-27 21:27:25.854 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.7891.1>, Ref:
#Ref<0.155928093.3974365185.60231>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 21:27:29.135 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:27:30.789 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:27:31.045 1 [info] <0.7896.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:27:31.047 1 [info] <0.7896.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.7895.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 21:27:31.301 1 [error] <0.7895.1>@http2_client:handle_settings:822
gen_server <0.7895.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:27:31.305 1 [error] <0.7895.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7895.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:27:31.306 1 [error] <0.7896.1>@Undefined:Undefined:Undefined
gen_server <0.7896.1> terminated with reason: connection_down
2022-06-27 21:27:31.307 1 [error] <0.7896.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7896.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:27:31.307 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7896.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:27:31.308 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:27:31.308 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:27:31.309 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:27:31.312 1 [warning]
```



```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7895.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},]}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6354>,socket_mon =>
#Ref<0.155928093.3973578754.152148>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7896.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:27:31.313 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7896.1>,connection_down}
2022-06-27 21:27:36.862 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:27:37.007 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:27:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:27:37.008 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:27:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:27:37.009 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
```

{440,5} Gateway

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6169,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:27:37 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
```

2022-06-27 21:27:39.291 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from 12291671073248440251 on 56833
```

2022-06-27 21:27:41.312 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "44.229.159.157":
```

```
{gateway_validators_req_v1_pb,1}
```

2022-06-27 21:27:41.530 1 [info] <0.7899.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 21:27:41.531 1 [info] <0.7899.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

```
none,connection => #{client => http2_client,host =>
```

```
<<"44.229.159.157">>,http_connection => <0.7898.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

2022-06-27 21:27:41.742 1 [error] <0.7898.1>@http2\_client:handle\_settings:822

```
gen_server <0.7898.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

2022-06-27 21:27:41.743 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.7899.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 21:27:41.743 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:27:41.744 1 [error] <0.7898.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7898.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:27:41.744 1 [error] <0.7899.1>@Undefined:Undefined:Undefined
gen_server <0.7899.1> terminated with reason: connection_down
2022-06-27 21:27:41.744 1 [error] <0.7899.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7899.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:27:41.745 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:27:41.745 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:27:41.747 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7898.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6355>,socket_mon =>
#Ref<0.155928093.3973578754.152238>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7899.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}}
2022-06-27 21:27:41.747 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7899.1>,connection_down} 2022-06-27
21:27:49.441 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:27:51.747 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:27:51.968 1 [info] <0.7902.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:27:51.969 1 [info] <0.7902.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.7901.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:27:52.187 1 [error] <0.7901.1>@http2_client:handle_settings:822
gen_server <0.7901.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:27:52.188 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7902.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:27:52.188 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:27:52.189 1 [error] <0.7901.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7901.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:27:52.189 1 [error] <0.7902.1>@Undefined:Undefined:Undefined
gen_server <0.7902.1> terminated with reason: connection_down
2022-06-27 21:27:52.191 1 [error] <0.7902.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7902.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:27:52.192 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:27:52.192 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:27:52.194 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7901.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6356>,socket_mon =>
```

```
#Ref<0.155928093.3973578754.152356>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7902.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 21:27:52.195 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7902.1>,connection_down} 2022-06-27
21:27:59.581 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:28:02.194 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:28:02.462 1 [info] <0.7911.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:28:02.463 1 [info] <0.7911.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.7910.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:28:02.734 1 [error] <0.7910.1>@http2_client:handle_settings:822
gen_server <0.7910.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:28:02.735 1 [error] <0.7910.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7910.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 21:28:02.736 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7911.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 21:28:02.736 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 21:28:02.736 1 [error] <0.7911.1>@Undefined:Undefined:Undefined
gen_server <0.7911.1> terminated with reason: connection_down
```

```
2022-06-27 21:28:02.736 1 [error] <0.7911.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.7911.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 21:28:02.737 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 21:28:02.737 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 21:28:02.738 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7910.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>},{66,
{<<"content-type">>,<<"application/grpc+proto">>},{54,
{<<":authority">>,<<"18.230.8.198">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6357>,socket_mon =>
#Ref<0.155928093.3973578754.152504>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.7911.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:28:02.739 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.7911.1>,connection_down}
2022-06-27 21:28:07.008 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:28:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:28:07.009 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:28:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:28:07.010 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6173,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:28:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:28:09.721 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:28:12.740 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:28:12.962 1 [info] <0.7948.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```



```
2022-06-27 21:28:12.964 1 [info] <0.7948.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.7938.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:28:13.180 1 [error] <0.7938.1>@http2_client:handle_settings:822
gen_server <0.7938.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:28:13.184 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.7948.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:28:13.184 1 [error] <0.7938.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.7938.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:28:13.184 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:28:13.185 1 [error] <0.7948.1>@Undefined:Undefined:Undefined
gen_server <0.7948.1> terminated with reason: connection_down
2022-06-27 21:28:13.186 1 [error] <0.7948.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.7948.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 21:28:13.186 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 21:28:13.186 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 21:28:13.188 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.7938.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{56,  
{<<":authority">>,<<"52.220.227.216">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "52.220.227.216",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6364>,socket\_mon =>  
#Ref<0.155928093.3973578754.152821>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.7948.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}]}]}  
2022-06-27 21:28:13.188 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.7948.1>,connection\_down} 2022-06-27  
21:28:19.878 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5}  
PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:28:23.189 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send

unary request via new connection to ip "52.49.199.40":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:28:25.796 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:remove\_worker:{682,59} Deleted 13  
pids from seed  
2022-06-27 21:28:25.797 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:remove\_worker:{682,59} Deleted 38  
pids from peerbook  
2022-06-27 21:28:25.797 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:remove\_worker:{682,59} Deleted 11 pids  
from inbound  
2022-06-27 21:28:30.022 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:28:36.055 1 [notice]  
<0.7991.1>@libp2p\_stream\_relay:handle\_info:{146,5} client init bridge Server to  
Client {libp2p\_relay\_bridge\_rs\_pb,"/p2p/  
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv",/  
ip4/43.157.120.48/tcp/44158"}  
2022-06-27 21:28:37.011 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:28:37 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 21:28:37.011 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:28:37 GMT">>,<<"txnb">> => 0}  
2022-06-27 21:28:37.012 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=6177,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:28:37 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 21:28:40.161 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:28:40.778 1 [info] <0.1662.0>@blockchain\_worker:target\_sync:  
{836,5} targeted block sync starting with Pid: <0.8001.1>, Ref:  
#Ref<0.155928093.3973578754.153520>, Peer: "/p2p/  
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"  
2022-06-27 21:28:50.312 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:28:51.817 1 [info] <0.1662.0>@blockchain\_worker:handle\_info: {673,53} block sync down: normal  
2022-06-27 21:28:53.192 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,719}]}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}],  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]}],  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]}]  
2022-06-27 21:28:53.192 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 21:28:53.193 1 [error] <0.7973.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.7973.1> with 0 neighbours exited with reason: timeout in gen\_server:init\_it/6 line 407  
2022-06-27 21:28:53.193 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.7973.1>,timeout}  
2022-06-27 21:29:00.471 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:29:03.194 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.122.38.248":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:29:03.274 1 [info] <0.8007.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 21:29:03.275 1 [info] <0.8007.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.122.38.248">>,http\_connection => <0.8006.1>,>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}>,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 21:29:03.349 1 [error] <0.8006.1>@http2\_client:handle\_settings:822

```
gen_server <0.8006.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:29:03.350 1 [error] <0.8006.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8006.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:29:03.351 1 [error] <0.8007.1>@Undefined:Undefined:Undefined
gen_server <0.8007.1> terminated with reason: connection_down
2022-06-27 21:29:03.352 1 [error] <0.8007.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8007.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:29:03.355 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8007.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:29:03.356 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:29:03.357 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:29:03.357 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:29:03.359 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8006.1>,{function_clause,
```

```
{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6373>,socket_mon =>
#Ref<0.155928093.3973578754.153828>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8007.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:29:03.359 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8007.1>,connection_down}
2022-06-27 21:29:07.009 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:29:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:29:07.010 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:29:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:29:07.011 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6181,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 21:29:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:29:10.608 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:29:13.359 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:29:13.510 1 [info] <0.8020.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:29:13.512 1 [info] <0.8020.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.8019.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:29:13.656 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8020.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:29:13.657 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:29:13.660 1 [error] <0.8019.1>@http2_client:handle_settings:822
gen_server <0.8019.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:29:13.662 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:29:13.662 1 [error] <0.8019.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8019.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:29:13.662 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:29:13.662 1 [error] <0.8020.1>@Undefined:Undefined:Undefined
gen_server <0.8020.1> terminated with reason: connection_down
2022-06-27 21:29:13.663 1 [error] <0.8020.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8020.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:29:13.665 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8019.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6374>,socket_mon =>
#Ref<0.155928093.3973578754.154040>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8020.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```



```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:29:13.666 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8020.1>,connection_down} 2022-06-27
21:29:20.754 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:29:23.665 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:29:23.924 1 [info] <0.8034.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:29:23.925 1 [info] <0.8034.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.8033.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:29:24.180 1 [error] <0.8033.1>@http2_client:handle_settings:822
gen_server <0.8033.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:29:24.181 1 [error] <0.8033.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8033.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:29:24.181 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8034.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 21:29:24.181 1 [error] <0.8034.1>@Undefined:Undefined:Undefined
gen_server <0.8034.1> terminated with reason: connection_down
2022-06-27 21:29:24.182 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:29:24.182 1 [error] <0.8034.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8034.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:29:24.182 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:29:24.183 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:29:24.184 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8033.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"3.39.165.144">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6375>,socket_mon =>
#Ref<0.155928093.3973578754.154196>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8034.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}}
2022-06-27 21:29:24.184 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8034.1>,connection_down} 2022-06-27
21:29:30.901 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:29:34.184 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:29:34.333 1 [info] <0.8042.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:29:34.334 1 [info] <0.8042.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.8041.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:29:34.477 1 [error] <0.8041.1>@http2_client:handle_settings:822
gen_server <0.8041.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:29:34.478 1 [error] <0.8041.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8041.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:29:34.479 1 [error] <0.8042.1>@Undefined:Undefined:Undefined
gen_server <0.8042.1> terminated with reason: connection_down
2022-06-27 21:29:34.479 1 [error] <0.8042.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8042.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:29:34.479 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8042.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:29:34.479 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:29:34.480 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:29:34.480 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:29:34.482 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8041.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6376>,socket_mon =>
```

```
#Ref<0.155928093.3973578754.154263>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8042.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 21:29:34.482 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8042.1>,connection_down}
2022-06-27 21:29:37.016 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:29:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:29:37.017 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:29:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:29:37.018 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6185,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:29:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:29:41.038 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:29:44.483 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:29:44.809 1 [info] <0.8050.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:29:44.810 1 [info] <0.8050.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>},http_connection => <0.8049.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:29:45.138 1 [error] <0.8049.1>@http2_client:handle_settings:822
gen_server <0.8049.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:29:45.138 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8050.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:29:45.139 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:29:45.139 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:29:45.139 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:29:45.141 1 [error] <0.8049.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8049.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:29:45.141 1 [error] <0.8050.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.8050.1> terminated with reason: connection_down
2022-06-27 21:29:45.142 1 [error] <0.8050.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8050.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:29:45.143 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8049.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6377>,socket_mon =>
#Ref<0.155928093.3973578754.154312>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8050.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:29:45.144 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8050.1>,connection_down} 2022-06-27
21:29:46.907 1 [info] <0.1662.0>@blockchain_worker:target_sync: {836,5}
targeted block sync starting with Pid: <0.8057.1>, Ref:
#Ref<0.155928093.3974365185.62729>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 21:29:51.188 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:29:55.142 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:29:55.376 1 [info] <0.8062.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:29:55.377 1 [info] <0.8062.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.8061.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:29:55.602 1 [error] <0.8061.1>@http2_client:handle_settings:822
gen_server <0.8061.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:29:55.604 1 [error] <0.8061.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8061.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:29:55.604 1 [error] <0.8062.1>@Undefined:Undefined:Undefined
gen_server <0.8062.1> terminated with reason: connection_down
2022-06-27 21:29:55.605 1 [error] <0.8062.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8062.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:29:55.605 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8062.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```



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[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:29:55.606 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:29:55.606 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:29:55.607 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:29:55.608 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8061.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6378>,socket_mon =>
#Ref<0.155928093.3973578754.154454>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8062.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]]}
2022-06-27 21:29:55.609 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

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in setup state: Type: info, Msg: {'EXIT',<0.8062.1>,connection_down}
2022-06-27 21:29:58.237 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:30:01.335 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:30:05.610 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:30:05.841 1 [info] <0.8065.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:30:05.843 1 [info] <0.8065.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.8064.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:30:06.064 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8065.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:30:06.063 1 [error] <0.8064.1>@http2_client:handle_settings:822
gen_server <0.8064.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:30:06.064 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 21:30:06.067 1 [error] <0.8064.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.8064.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 21:30:06.067 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 21:30:06.067 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:30:06.068 1 [error] <0.8065.1>@Undefined:Undefined:Undefined gen\_server <0.8065.1> terminated with reason: connection\_down

2022-06-27 21:30:06.068 1 [error] <0.8065.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.8065.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:30:06.071 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8064.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"13.215.75.202">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "13.215.75.202",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6379>,socket\_mon => #Ref<0.155928093.3973578754.154487>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.8065.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:30:06.072 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8065.1>,connection_down} 2022-06-27
21:30:07.017 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:30:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:30:07.017 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:30:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:30:07.018 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6189,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:30:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:30:11.478 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:30:16.070 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:30:16.284 1 [info] <0.8075.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:30:16.286 1 [info] <0.8075.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.8074.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:30:16.507 1 [error] <0.8074.1>@http2_client:handle_settings:822
```

```
gen_server <0.8074.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:30:16.509 1 [error] <0.8074.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8074.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:30:16.513 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8075.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:30:16.514 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:30:16.515 1 [error] <0.8075.1>@Undefined:Undefined:Undefined
gen_server <0.8075.1> terminated with reason: connection_down
2022-06-27 21:30:16.515 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:30:16.516 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:30:16.516 1 [error] <0.8075.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8075.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:30:16.520 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8074.1>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6380>,socket_mon =>
#Ref<0.155928093.3973578754.154545>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8075.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:30:16.521 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8075.1>,connection_down}
2022-06-27 21:30:18.327 1 [info] <0.1636.0>@libp2p_peerbook:notify_peers:
{726,5} gossiping out 16 notify peers
2022-06-27 21:30:21.634 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:30:26.519 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:30:26.748 1 [info] <0.8088.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:30:26.750 1 [info] <0.8088.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.8087.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:30:26.970 1 [error] <0.8087.1>@http2_client:handle_settings:822
gen_server <0.8087.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:30:26.971 1 [error] <0.8087.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8087.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:30:26.973 1 [error] <0.8088.1>@Undefined:Undefined:Undefined
gen_server <0.8088.1> terminated with reason: connection_down
2022-06-27 21:30:26.974 1 [error] <0.8088.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8088.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:30:26.974 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8088.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:30:26.975 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:30:26.975 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 21:30:26.975 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:30:26.977 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8087.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "13.215.75.202",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6381>,socket\_mon => #Ref<0.155928093.3973578754.154703>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.8088.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}

2022-06-27 21:30:26.978 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8088.1>,connection\_down} 2022-06-27 21:30:31.771 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:30:36.978 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.72.143.228":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 21:30:37.017 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA



```
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:30:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:30:37.017 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:30:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:30:37.019 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6193,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:30:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:30:37.056 1 [info] <0.8091.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:30:37.058 1 [info] <0.8091.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.8090.1>,>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:30:37.128 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8091.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:30:37.128 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

```
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:30:37.128 1 [error] <0.8090.1>@http2_client:handle_settings:822
gen_server <0.8090.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:30:37.129 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:30:37.129 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:30:37.129 1 [error] <0.8090.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8090.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:30:37.131 1 [error] <0.8091.1>@Undefined:Undefined:Undefined
gen_server <0.8091.1> terminated with reason: connection_down
2022-06-27 21:30:37.131 1 [error] <0.8091.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8091.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:30:37.131 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8090.1>,{function_clause,
[http2_client,handle_settings,
[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6382>,socket_mon =>
#Ref<0.155928093.3973578754.154762>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8091.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:30:37.132 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8091.1>,connection_down}
2022-06-27 21:30:41.725 1 [info] <0.1662.0>@blockchain_worker:start_sync:
{888,13} new block sync starting with Pid: <0.8093.1>, Ref:
#Ref<0.155928093.3974365185.64168>, Peer: "/p2p/
11yngEw1wwArMQsqtLRxcMphziTTk4TbZK2vLx4NM88njF1vNsi"
2022-06-27 21:30:41.911 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:30:45.088 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11yngEw1wwArMQsqtLRxcMphziTTk4TbZK2vLx4NM88njF1vNsi" informed us of
our observed address "/ip4/80.77.186.186/tcp/3194"
2022-06-27 21:30:47.132 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:30:47.297 1 [info] <0.8110.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:30:47.298 1 [info] <0.8110.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.8109.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:30:47.450 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8110.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{{file,"grpc_client_stream_custom.erl"},{line,418}}],{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 21:30:47.450 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:30:47.452 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:30:47.452 1 [error] <0.8109.1>@http2_client:handle_settings:822
gen_server <0.8109.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:30:47.452 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:30:47.454 1 [error] <0.8109.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8109.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:30:47.455 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8109.1>,{function_clause,
[{{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
```

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{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6388>,socket_mon =>
#Ref<0.155928093.3973578754.154826>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8110.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}}
2022-06-27 21:30:47.456 1 [error] <0.8110.1>@Undefined:Undefined:Undefined
gen_server <0.8110.1> terminated with reason: connection_down
2022-06-27 21:30:47.456 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8110.1>,connection_down}
2022-06-27 21:30:47.456 1 [error] <0.8110.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8110.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:30:49.918 1 [info]
<0.8104.1>@blockchain_sync_handler:handle_data:{132,5} adding sync blocks
[1409926,1409927,1409928,1409929,1409930]
2022-06-27 21:30:52.068 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:30:52.776 1 [info]
<0.8104.1>@blockchain_sync_handler:handle_data:{142,13} Eagerly re-gossiping
1409930
2022-06-27 21:30:54.335 1 [info] <0.8112.1>@blockchain_txn:validate:{299,5}
valid: [], invalid: []
2022-06-27 21:30:54.417 1 [info] <0.8119.1>@blockchain_txn:absorb:{578,21}
took 33 ms to absorb blockchain_txn_payment_v1
2022-06-27 21:30:54.717 1 [info] <0.8119.1>@blockchain_txn:absorb:{578,21}
took 285 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 21:30:54.835 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 361 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 21:30:55.096 1 [info] <0.8119.1>@blockchain_txn:absorb:{578,21}
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took 379 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:30:55.122 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_validator\_heartbeat\_v1  
2022-06-27 21:30:55.253 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:55.268 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 432 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:30:55.297 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:55.333 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:55.398 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:55.453 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:55.526 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:55.576 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:55.625 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:55.677 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:55.727 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 458 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:30:55.729 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:55.766 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:55.832 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:55.890 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:55.925 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:55.964 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:55.995 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:56.048 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:56.065 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 339 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:30:56.112 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}

took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:56.159 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:56.199 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:56.245 1 [info] <0.8119.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:56.391 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 325 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:30:56.419 1 [info]  
<0.8119.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected 241  
POCs for block height 1409875  
2022-06-27 21:30:56.673 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:56.725 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:56.795 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:56.868 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:56.930 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:57.008 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:57.079 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:57.130 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:57.158 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:57.195 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:57.234 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:57.277 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:57.359 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:57.441 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 81 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:57.459 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "35.82.239.134":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 21:30:57.531 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took 91 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:30:57.590 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:30:57.644 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:30:57.681 1 [info] <0.8121.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 21:30:57.682 1 [info] <0.8121.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"35.82.239.134">>,http\_connection => <0.8120.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 21:30:57.703 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:30:57.743 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:30:57.823 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:30:57.891 1 [error] <0.8120.1>@http2\_client:handle\_settings:822 gen\_server <0.8120.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:30:57.892 1 [error] <0.8120.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.8120.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:30:57.893 1 [error] <0.8121.1>@Undefined:Undefined:Undefined gen\_server <0.8121.1> terminated with reason: connection\_down

2022-06-27 21:30:57.894 1 [error] <0.8121.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.8121.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:30:57.895 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.8121.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,



```
{file,"gen_server.erl"},{line,247}}},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:30:57.895 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:30:57.895 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:30:57.896 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:30:57.897 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8120.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6389>,socket_mon =>
#Ref<0.155928093.3973578754.155866>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8121.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 21:30:57.898 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8121.1>,connection_down}
2022-06-27 21:30:57.915 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 90 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:57.969 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 53 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:58.044 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 75 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:58.144 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 101 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:58.201 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 56 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:58.247 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 46 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:58.305 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 57 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:58.375 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 70 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:58.470 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 94 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:58.544 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 74 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:58.591 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 46 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:58.624 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 32 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:58.663 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 39 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:58.717 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 54 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:58.786 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 69 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:58.861 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 74 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:30:58.901 1 [info] <0.8112.1>@blockchain_txn:absorb:{578,21}
took 41 ms to absorb blockchain_txn_poc_receipts_v2
```

2022-06-27 21:30:58.962 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.041 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.094 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.149 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.195 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.246 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.297 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.371 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.453 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 81 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.591 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.628 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.672 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.729 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.786 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.838 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.878 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:30:59.934 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:00.013 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:00.090 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:00.150 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:00.208 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:00.258 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:00.316 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:00.360 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:00.431 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:00.536 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 97 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:00.590 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:00.650 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:00.747 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 97 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:00.827 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 80 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:00.929 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 101 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:01.021 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took  
92 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:01.103 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took  
82 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:01.148 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took  
44 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:01.188 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took  
41 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:01.248 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:01.274 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took  
25 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:01.318 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took  
42 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:01.361 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took  
40 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:01.395 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:01.431 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took  
35 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:01.483 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:01.548 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:01.600 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:31:01.667 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:01.758 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took  
87 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:01.812 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took  
54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:01.877 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took  
64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:01.950 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:01.980 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.078 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.135 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.184 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.224 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:31:02.229 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.290 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.357 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.391 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.419 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.491 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.563 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.627 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.691 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.746 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.812 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.871 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took

59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.932 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:02.990 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:03.053 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:03.087 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:03.132 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:03.167 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21} took  
32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:03.234 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:03.285 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:03.332 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:03.408 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:03.503 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 94 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:03.548 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:03.626 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:03.708 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:03.804 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 96 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:03.903 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 99 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:03.991 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 88 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.070 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 75 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.125 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.168 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.225 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.287 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}

took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.332 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.405 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.485 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.521 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.592 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.690 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 97 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.749 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.786 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.822 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.893 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:04.929 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:05.003 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:05.084 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 81 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:05.133 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:05.165 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:05.261 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:05.302 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:05.368 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:05.439 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:05.506 1 [info] <0.8112.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:31:05.650 1 [info]  
<0.8112.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected 212  
POCs for block height 1409926

```
2022-06-27 21:31:05.895 1 [error] emulator@Undefined:Undefined:Undefined
Error in process <0.8112.1> on node 'miner@127.0.0.1' with exit value: {{badmatch,
{error,{error,"Corruption: block checksum mismatch: stored = 1975174337,
computed = 3807013015 in /var/data/blockchain.db/015769.sst offset 486887 size
514635"}}},[{blockchain,save_block,2,[{file,"blockchain.erl"}, {line,2535}]},
{blockchain,'-add_block_/3-fun-0-',5,[{file,"blockchain.erl"}, {line,1136}]},
{blockchain_txn,unvalidated_absorb_and_commit,4, [{file,"blockchain_txn.erl"},
{line,508}]},{blockchain,add_block_,3, [{file,"blockchain.erl"},{line,1157}]},
{blockchain,'-check_plausible_blocks/2- fun-1-',4,[{file,"blockchain.erl"},
{line,2989}]},{lists,foreach,2,[{file,"lists.erl"}, {line,1342}]},
{blockchain,check_plausible_blocks,2,[{file,"blockchain.erl"}, {line,2983}]}}}}
2022-06-27 21:31:05.921 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:31:07.019 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:31:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:31:07.019 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:31:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:31:07.021 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6197,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:31:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:31:07.898 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:31:09.132 1 [info] <0.8124.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:31:09.133 1 [info] <0.8124.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.8123.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```



```
miner_poc_grpc_client_handler
2022-06-27 21:31:09.351 1 [error] <0.8123.1>@http2_client:handle_settings:822
gen_server <0.8123.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:31:09.353 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8124.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:31:09.353 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:31:09.353 1 [error] <0.8123.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8123.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:31:09.353 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:31:09.353 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:31:09.354 1 [error] <0.8124.1>@Undefined:Undefined:Undefined
gen_server <0.8124.1> terminated with reason: connection_down
2022-06-27 21:31:09.354 1 [error] <0.8124.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8124.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:31:09.355 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8123.1>,{function_clause,
[ {http2_client,handle_settings,
[ [],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6390>,socket_mon =>
#Ref<0.155928093.3974365185.66198>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8124.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}]}
2022-06-27 21:31:09.355 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8124.1>,connection_down}
2022-06-27 21:31:12.377 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:31:19.356 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:31:19.578 1 [info] <0.8133.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:31:19.579 1 [info] <0.8133.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.8132.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:31:19.795 1 [error] <0.8132.1>@http2_client:handle_settings:822
gen_server <0.8132.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:31:19.797 1 [error] <0.8132.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8132.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:31:19.797 1 [error] <0.8133.1>@Undefined:Undefined:Undefined
gen_server <0.8133.1> terminated with reason: connection_down
2022-06-27 21:31:19.798 1 [error] <0.8133.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8133.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:31:19.798 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8133.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:31:19.798 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:31:19.799 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 21:31:19.799 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:31:19.800 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8132.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {56, {<<":authority">>,<<"52.220.227.216">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "52.220.227.216",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6391>,socket\_mon => #Ref<0.155928093.3973578754.156584>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.8133.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}]}

2022-06-27 21:31:19.801 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8133.1>,connection\_down}

2022-06-27 21:31:22.527 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:31:29.802 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.132.190.192":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 21:31:29.947 1 [info] <0.8179.1>@grpc\_client\_stream\_custom:init:

```
{131,9} init stream for RPC validators and type unary
2022-06-27 21:31:29.948 1 [info] <0.8179.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.8178.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:31:30.299 1 [error] <0.8178.1>@http2_client:handle_settings:822
gen_server <0.8178.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:31:30.301 1 [error] <0.8178.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8178.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:31:30.301 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8179.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:31:30.301 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:31:30.301 1 [error] <0.8179.1>@Undefined:Undefined:Undefined
gen_server <0.8179.1> terminated with reason: connection_down
```

2022-06-27 21:31:30.301 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 21:31:30.302 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:31:30.302 1 [error] <0.8179.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.8179.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:31:30.303 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8178.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"3.132.190.192">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.132.190.192",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6397>,socket\_mon => #Ref<0.155928093.3973578754.157057>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.8179.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]

2022-06-27 21:31:30.303 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8179.1>,connection\_down}

2022-06-27 21:31:32.664 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

```
2022-06-27 21:31:37.013 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:31:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:31:37.014 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:31:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:31:37.016 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6201,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:31:37 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:31:40.304 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:31:40.450 1 [info] <0.8182.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:31:40.452 1 [info] <0.8182.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.8181.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:31:40.591 1 [error] <0.8181.1>@http2_client:handle_settings:822
gen_server <0.8181.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:31:40.593 1 [error] <0.8181.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8181.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 21:31:40.593 1 [error] <0.8182.1>@Undefined:Undefined:Undefined
gen_server <0.8182.1> terminated with reason: connection_down
2022-06-27 21:31:40.593 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8182.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:31:40.594 1 [error] <0.8182.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8182.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:31:40.594 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:31:40.594 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:31:40.594 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:31:40.596 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8181.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.137.92.200",last_stream => 1,owner =>
```



```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6398>,socket_mon =>
#Ref<0.155928093.3973578754.157251>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8182.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:31:40.596 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8182.1>,connection_down}
2022-06-27 21:31:42.812 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:31:50.596 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:31:50.682 1 [info] <0.8186.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:31:50.684 1 [info] <0.8186.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.8185.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:31:50.758 1 [error] <0.8185.1>@http2_client:handle_settings:822
gen_server <0.8185.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:31:50.760 1 [error] <0.8185.1>@http2_client:handle_settings:822
```

CRASH REPORT Process <0.8185.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:31:50.761 1 [error] <0.8186.1>@Undefined:Undefined:Undefined gen\_server <0.8186.1> terminated with reason: connection\_down

2022-06-27 21:31:50.761 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.8186.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]]

2022-06-27 21:31:50.761 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 21:31:50.761 1 [error] <0.8186.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.8186.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:31:50.761 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 21:31:50.761 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:31:50.763 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8185.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

```
{state,0,4096,4096,[],encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {52,
{<<":authority">>,<<"52.30.1.39">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6399>,socket_mon =>
#Ref<0.155928093.3973578754.157423>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8186.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:31:50.764 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8186.1>,connection_down}
2022-06-27 21:31:52.954 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:32:00.764 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:32:00.830 1 [info] <0.8189.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:32:00.831 1 [info] <0.8189.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.8188.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:32:00.888 1 [error] <0.8188.1>@http2_client:handle_settings:822
gen_server <0.8188.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:32:00.890 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8189.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:32:00.890 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:32:00.891 1 [error] <0.8188.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8188.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:32:00.891 1 [error] <0.8189.1>@Undefined:Undefined:Undefined
gen_server <0.8189.1> terminated with reason: connection_down
2022-06-27 21:32:00.891 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:32:00.892 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:32:00.892 1 [error] <0.8189.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8189.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:32:00.893 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8188.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {54,
{<<":authority">>,<<"3.72.143.228">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6400>,socket_mon =>
#Ref<0.155928093.3973578754.157606>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8189.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:32:00.894 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8189.1>,connection_down}
2022-06-27 21:32:03.102 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:32:07.024 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:32:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:32:07.025 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:32:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:32:07.026 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=6205,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:32:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:32:10.894 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:32:10.965 1 [info] <0.8192.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:32:10.967 1 [info] <0.8192.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.8191.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:32:11.024 1 [error] <0.8191.1>@http2_client:handle_settings:822
gen_server <0.8191.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:32:11.026 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8192.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:32:11.026 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 21:32:11.026 1 [error] <0.8191.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8191.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:32:11.026 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:32:11.026 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:32:11.027 1 [error] <0.8192.1>@Undefined:Undefined:Undefined
gen_server <0.8192.1> terminated with reason: connection_down
2022-06-27 21:32:11.027 1 [error] <0.8192.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8192.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:32:11.028 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8191.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6401>,socket_mon =>
#Ref<0.155928093.3973578754.157767>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8192.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]}],
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 21:32:11.028 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8192.1>,connection_down}
2022-06-27 21:32:13.247 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:32:21.028 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:32:21.341 1 [info] <0.8195.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:32:21.342 1 [info] <0.8195.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.8194.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:32:21.651 1 [error] <0.8194.1>@http2_client:handle_settings:822
gen_server <0.8194.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:32:21.653 1 [error] <0.8194.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8194.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:32:21.654 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8195.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[[{file,"gen_server.erl"},{line,247}]],
{grpc_client_stream_custom,process_response,2,
[[{file,"grpc_client_stream_custom.erl"},{line,418}]],{grpc_client_custom,unary,6,
[[{file,"grpc_client_custom.erl"},{line,278}]]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```



```
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 21:32:21.654 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:32:21.655 1 [error] <0.8195.1>@Undefined:Undefined:Undefined
gen_server <0.8195.1> terminated with reason: connection_down
2022-06-27 21:32:21.655 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:32:21.655 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:32:21.656 1 [error] <0.8195.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8195.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:32:21.658 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8194.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[[{42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{53,
{<<":authority">>,<<"3.104.32.11">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6402>,socket_mon =>
#Ref<0.155928093.3973578754.157945>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8195.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}}
2022-06-27 21:32:21.659 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8195.1>,connection_down}
2022-06-27 21:32:21.708 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1641.0>
2022-06-27 21:32:23.395 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:32:31.657 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:32:31.868 1 [info] <0.8232.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:32:31.869 1 [info] <0.8232.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.8231.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:32:32.078 1 [error] <0.8231.1>@http2_client:handle_settings:822
gen_server <0.8231.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:32:32.080 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8232.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 21:32:32.080 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:32:32.080 1 [error] <0.8231.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8231.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:32:32.081 1 [error] <0.8232.1>@Undefined:Undefined:Undefined
gen_server <0.8232.1> terminated with reason: connection_down
2022-06-27 21:32:32.081 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:32:32.081 1 [error] <0.8232.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8232.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:32:32.081 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:32:32.084 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8231.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6403>,socket_mon =>
#Ref<0.155928093.3973578754.158362>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8232.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:32:32.084 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8232.1>,connection_down}
2022-06-27 21:32:33.541 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:32:37.016 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:32:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:32:37.016 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:32:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:32:37.018 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6209,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:32:37 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:32:42.084 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:32:42.407 1 [info] <0.8235.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:32:42.408 1 [info] <0.8235.1>@grpc_client_stream_custom:init:
```

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.8234.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:32:42.724 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8235.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:32:42.724 1 [error] <0.8234.1>@http2_client:handle_settings:822
gen_server <0.8234.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:32:42.724 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:32:42.726 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:32:42.726 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:32:42.726 1 [error] <0.8234.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8234.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 21:32:42.727 1 [error] <0.8235.1>@Undefined:Undefined:Undefined
gen_server <0.8235.1> terminated with reason: connection_down
2022-06-27 21:32:42.728 1 [error] <0.8235.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8235.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:32:42.731 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8234.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"13.237.155.172">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6404>,socket_mon =>
#Ref<0.155928093.3973578754.158558>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8235.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:32:42.732 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8235.1>,connection_down}
2022-06-27 21:32:43.686 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:32:52.728 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

```
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:32:52.794 1 [info] <0.8238.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:32:52.797 1 [info] <0.8238.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.8237.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:32:52.854 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8238.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:32:52.855 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:32:52.855 1 [error] <0.8237.1>@http2_client:handle_settings:822
gen_server <0.8237.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:32:52.856 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:32:52.856 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 21:32:52.857 1 [error] <0.8237.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8237.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:32:52.857 1 [error] <0.8238.1>@Undefined:Undefined:Undefined
gen_server <0.8238.1> terminated with reason: connection_down
2022-06-27 21:32:52.857 1 [error] <0.8238.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8238.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:32:52.859 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8237.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6405>,socket_mon =>
#Ref<0.155928093.3973578754.158768>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8238.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:32:52.860 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8238.1>,connection_down}
```



2022-06-27 21:32:53.831 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:33:02.859 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.49.199.40":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:33:03.978 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:33:07.023 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:33:07 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 21:33:07.024 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:33:07 GMT">>,<<"txnb">> => 0}  
2022-06-27 21:33:07.025 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6213,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:33:07 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 21:33:14.127 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:33:24.268 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:33:32.864 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}}]

```
2022-06-27 21:33:32.864 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:33:32.865 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8240.1>,timeout}
2022-06-27 21:33:32.865 1 [error] <0.8240.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8240.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 21:33:34.424 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:33:37.025 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:33:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:33:37.025 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:33:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:33:37.026 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6217,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:33:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:33:41.351 1 [notice] <0.8279.1>@libp2p_stream_relay:handle_info:
{146,5} client init bridge Server to Client {libp2p_relay_bridge_rs_pb,"/p2p/
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv","/
ip4/43.157.120.48/tcp/44158"}
2022-06-27 21:33:42.866 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:33:43.131 1 [info] <0.8290.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:33:43.133 1 [info] <0.8290.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.8286.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:33:43.390 1 [error] <0.8286.1>@http2_client:handle_settings:822
gen_server <0.8286.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:33:43.392 1 [error] <0.8286.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8286.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:33:43.393 1 [error] <0.8290.1>@Undefined:Undefined:Undefined
gen_server <0.8290.1> terminated with reason: connection_down
2022-06-27 21:33:43.394 1 [error] <0.8290.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8290.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:33:43.395 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8290.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:33:43.396 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:33:43.396 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 21:33:43.396 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:33:43.398 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8286.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6408>,socket_mon =>
#Ref<0.155928093.3974365185.67411>,state => open,stream_count => 1,streams
=> [{1,#{client_initial_window => 65535,client_window => 65535,id => 1,owner =>
<0.8290.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}]}
2022-06-27 21:33:43.399 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8290.1>,connection_down}
2022-06-27 21:33:44.565 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:33:53.399 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:33:53.658 1 [info] <0.8293.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 21:33:53.660 1 [info] <0.8293.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.8292.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:33:53.915 1 [error] <0.8292.1>@http2_client:handle_settings:822
gen_server <0.8292.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:33:53.916 1 [error] <0.8292.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8292.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:33:53.917 1 [error] <0.8293.1>@Undefined:Undefined:Undefined
gen_server <0.8293.1> terminated with reason: connection_down
2022-06-27 21:33:53.917 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8293.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:33:53.917 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:33:53.917 1 [error] <0.8293.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.8293.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 21:33:53.917 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 21:33:53.917 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 21:33:53.919 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.8292.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,  
{<<":authority">>,<<"18.228.158.83">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "18.228.158.83",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6409>,socket\_mon =>  
#Ref<0.155928093.3973578754.160249>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.8293.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]  
2022-06-27 21:33:53.919 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.8293.1>,connection\_down}  
2022-06-27 21:33:54.721 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:34:03.919 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:34:03.988 1 [info] <0.8305.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:34:03.989 1 [info] <0.8305.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2_client,host => <<"3.72.215.7">>,http_connection => <0.8304.1>,scheme => <<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input => gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name => validators,opts => [],output => gateway_resp_v1_pb,output_stream => false,package => [],queue => {[[],[]]},response_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod: miner_poc_grpc_client_handler
2022-06-27 21:34:04.050 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8305.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:34:04.050 1 [error] <0.8304.1>@http2_client:handle_settings:822
gen_server <0.8304.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:34:04.051 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New Connection, send unary result: {error,#{error_type => client,status_message => <<"stream create failed">>}}
2022-06-27 21:34:04.052 1 [error] <0.8304.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8304.1> with 0 neighbours crashed with reason: no function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:34:04.052 1 [error] <0.8305.1>@Undefined:Undefined:Undefined
gen_server <0.8305.1> terminated with reason: connection_down
2022-06-27 21:34:04.051 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:34:04.052 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:34:04.053 1 [error] <0.8305.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8305.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:34:04.055 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8304.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6413>,socket_mon =>
#Ref<0.155928093.3974365185.67514>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8305.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:34:04.055 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```



in setup state: Type: info, Msg: {'EXIT',<0.8305.1>,connection\_down} 2022-06-27 21:34:04.871 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:34:05.704 1 [notice] <0.8313.1>@libp2p\_multistream\_server:handle\_info:{108,13} Failed to handshake client "/ip4/192.168.5.233/tcp/51646": closed  
2022-06-27 21:34:07.026 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #{"stat" => #{"ackr" => 0.0,<"dwnb"> => 0,<"rxfw"> => 0,<"rxnb"> => 0,<"rxok"> => 0,<"temp"> => 0.0,<"time"> => <"2022-06-27 21:34:07 GMT">,<"txnb"> => 0}} from 12291671073248440251 on 35152  
2022-06-27 21:34:07.026 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{"ackr" => 0.0,<"dwnb"> => 0,<"rxfw"> => 0,<"rxnb"> => 0,<"rxok"> => 0,<"temp"> => 0.0,<"time"> => <"2022-06-27 21:34:07 GMT">,<"txnb"> => 0}  
2022-06-27 21:34:07.027 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway #gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6221,dropped=0,status=#{"ackr" => 0.0,<"dwnb"> => 0,<"rxfw"> => 0,<"rxnb"> => 0,<"rxok"> => 0,<"temp"> => 0.0,<"time"> => <"2022-06-27 21:34:07 GMT">,<"txnb"> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 21:34:11.839 1 [warning] <0.1640.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/112dgcUHF4RzCZizVmanG8tv1Hqq4nDU3oUZFEXMc39FfABKMDK": [{"/ip4/88.235.157.99/tcp/44158",timeout}]  
2022-06-27 21:34:14.055 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "35.82.239.134": {gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:34:14.274 1 [info] <0.8317.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 21:34:14.275 1 [info] <0.8317.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <"35.82.239.134">,>,http\_connection => <0.8316.1>,>,scheme => <"http">,>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{},>,name => validators,>,opts => [],>,output => gateway\_resp\_v1\_pb,>,output\_stream => false,>,package => [],>,queue => {[],[]},>,response\_pending => false,>,rpc => validators,>,service => 'helium.gateway',>,state => idle,>,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 21:34:14.491 1 [error] <0.8316.1>@http2\_client:handle\_settings:822

```
gen_server <0.8316.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:34:14.495 1 [error] <0.8316.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8316.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:34:14.495 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8317.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:34:14.496 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:34:14.496 1 [error] <0.8317.1>@Undefined:Undefined:Undefined
gen_server <0.8317.1> terminated with reason: connection_down
2022-06-27 21:34:14.497 1 [error] <0.8317.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8317.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:34:14.497 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:34:14.497 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:34:14.501 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8316.1>,{function_clause,
```

```
{http2_client,handle_settings,  
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client_settings => #{enable_push => 0,header_table_size =>  
4096,initial_window_size => 65535,low_water_mark =>  
16384,max_concurrent_streams => undefined,max_frame_size =>  
16384},client_window => 65535,continuation_data => undefined,decode_state =>  
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"35.82.239.134">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "35.82.239.134",last_stream => 1,owner =>  
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size  
=> 4096,initial_window_size => 65535,low_water_mark =>  
16384,max_concurrent_streams => undefined,max_frame_size =>  
16384},server_window => 65528,socket => #Port<0.6422>,socket_mon =>  
#Ref<0.155928093.3973578754.160686>,state => open,stream_count =>  
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>  
1,owner => <0.8317.1>,server_window => 65528,state =>  
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>  
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>  
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>  
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],  
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],  
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],  
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],  
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]  
2022-06-27 21:34:14.502 1 [warning]  
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.8317.1>,connection_down}  
2022-06-27 21:34:15.018 1 [info]  
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:34:21.236 1 [info] <0.1662.0>@blockchain_worker:target_sync:  
{836,5} targeted block sync starting with Pid: <0.8319.1>, Ref:  
#Ref<0.155928093.3973578754.160847>, Peer: "/p2p/  
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"  
2022-06-27 21:34:24.500 1 [info]  
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send  
unary request via new connection to ip "3.131.232.233":  
{gateway_validators_req_v1_pb,1}  
2022-06-27 21:34:24.646 1 [info] <0.8324.1>@grpc_client_stream_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 21:34:24.649 1 [info] <0.8324.1>@grpc_client_stream_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.8323.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:34:24.785 1 [error] <0.8323.1>@http2_client:handle_settings:822
gen_server <0.8323.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:34:24.787 1 [error] <0.8323.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8323.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:34:24.788 1 [error] <0.8324.1>@Undefined:Undefined:Undefined
gen_server <0.8324.1> terminated with reason: connection_down
2022-06-27 21:34:24.789 1 [error] <0.8324.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8324.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:34:24.791 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8324.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:34:24.792 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 21:34:24.792 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 21:34:24.793 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:34:24.796 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8323.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"3.131.232.233">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.131.232.233",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6423>,socket\_mon => #Ref<0.155928093.3973578754.160957>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.8324.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 21:34:24.797 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8324.1>,connection\_down}

2022-06-27 21:34:25.158 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:34:32.355 1 [info] <0.1662.0>@blockchain\_worker:handle\_info: {673,53} block sync down: normal

2022-06-27 21:34:34.794 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:34:34.943 1 [info] <0.8329.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:34:34.944 1 [info] <0.8329.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.8327.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:34:35.087 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8329.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:34:35.087 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:34:35.087 1 [error] <0.8327.1>@http2_client:handle_settings:822
gen_server <0.8327.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:34:35.088 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:34:35.088 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:34:35.088 1 [error] <0.8327.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8327.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:34:35.089 1 [error] <0.8329.1>@Undefined:Undefined:Undefined
gen_server <0.8329.1> terminated with reason: connection_down
2022-06-27 21:34:35.089 1 [error] <0.8329.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8329.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:34:35.091 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8327.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6424>,socket_mon =>
#Ref<0.155928093.3973578754.161167>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8329.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:34:35.092 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

in setup state: Type: info, Msg: {'EXIT',<0.8329.1>,connection\_down} 2022-06-27 21:34:35.311 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:34:37.028 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:34:37 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 21:34:37.029 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:34:37 GMT">>,<<"txnb">> => 0}  
2022-06-27 21:34:37.030 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway #gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6225,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:34:37 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 21:34:45.090 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.70.239.5": {gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:34:45.316 1 [info] <0.8355.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 21:34:45.319 1 [info] <0.8355.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"54.70.239.5">>,http\_connection => <0.8354.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 21:34:45.461 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:34:45.531 1 [error] <0.8354.1>@http2\_client:handle\_settings:822 gen\_server <0.8354.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>



```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:34:45.533 1 [error] <0.8354.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8354.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:34:45.534 1 [error] <0.8355.1>@Undefined:Undefined:Undefined
gen_server <0.8355.1> terminated with reason: connection_down
2022-06-27 21:34:45.535 1 [error] <0.8355.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8355.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:34:45.536 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8355.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:34:45.537 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:34:45.537 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:34:45.538 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:34:45.541 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8354.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

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16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6425>,socket_mon =>
#Ref<0.155928093.3973578754.161477>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8355.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl",{line,226}}}]}}}
2022-06-27 21:34:45.541 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8355.1>,connection_down}
2022-06-27 21:34:51.008 1 [info] <0.1662.0>@blockchain_worker:start_sync:
{888,13} new block sync starting with Pid: <0.8357.1>, Ref:
#Ref<0.155928093.3974365185.67968>, Peer: "/p2p/
11FqohExVFjTY3J1RXcM3GNAni1RNsV1mtX8fibRniyywVpUfQk"
2022-06-27 21:34:52.472 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11FqohExVFjTY3J1RXcM3GNAni1RNsV1mtX8fibRniyywVpUfQk" informed us of our
observed address "/ip4/80.77.186.186/tcp/28698"
2022-06-27 21:34:55.541 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:34:55.601 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:34:55.804 1 [info] <0.8374.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:34:55.805 1 [info] <0.8374.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

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none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.8373.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:34:56.064 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8374.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:34:56.065 1 [error] <0.8373.1>@http2_client:handle_settings:822
gen_server <0.8373.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:34:56.065 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:34:56.066 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:34:56.066 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:34:56.069 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8373.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"18.230.8.198">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6431>,socket_mon =>
#Ref<0.155928093.3973578754.161597>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8374.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:34:56.070 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8374.1>,connection_down}
2022-06-27 21:34:56.070 1 [error] <0.8373.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8373.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:34:56.071 1 [error] <0.8374.1>@Undefined:Undefined:Undefined
gen_server <0.8374.1> terminated with reason: connection_down
2022-06-27 21:34:56.073 1 [error] <0.8374.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8374.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:34:59.216 1 [info]
<0.8368.1>@blockchain_sync_handler:handle_data:{132,5} adding sync blocks
[1409926,1409927,1409928,1409929,1409930]
2022-06-27 21:35:02.158 1 [info]
<0.8368.1>@blockchain_sync_handler:handle_data:{142,13} Eagerly re-gossiping
1409930
```

2022-06-27 21:35:03.775 1 [info] <0.8376.1>@blockchain\_txn:validate:{299,5}  
valid: [], invalid: []

2022-06-27 21:35:04.149 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 280 ms to absorb blockchain\_txn\_assert\_location\_v2

2022-06-27 21:35:04.272 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 355 ms to absorb blockchain\_txn\_assert\_location\_v2

2022-06-27 21:35:04.517 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 367 ms to absorb blockchain\_txn\_assert\_location\_v2

2022-06-27 21:35:04.673 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:04.700 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:04.723 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 450 ms to absorb blockchain\_txn\_assert\_location\_v2

2022-06-27 21:35:04.748 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:04.811 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:04.879 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:04.938 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:04.994 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:05.044 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:05.097 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:05.148 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:05.177 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 454 ms to absorb blockchain\_txn\_assert\_location\_v2

2022-06-27 21:35:05.191 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:05.251 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:05.292 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:05.335 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:05.402 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:05.452 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:05.509 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:05.562 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:05.599 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:05.644 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:05.669 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 492 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:35:05.700 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:05.735 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:35:05.757 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:05.834 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 75 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:05.880 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:05.900 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"rxpk">> => [#{<<"chan">> => 0,<<"codr">> => <<"4/5">>,<<"data">> =>  
<<"QDDaAAfEfUddAJQgADaDHcTEfC/WGxi+7LQD3LZf/tXoi/  
WJHA0sloP0I4LjFdb85WSDlg==">>,<<"datr">> =>  
<<"SF12BW125">>,<<"foff">> => -224,<<"freq">> => 868.1,<<"jver">> =>  
1,<<"lsnr">> => -22.0,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">>  
=> 1,<<"rssi">> => -110,<<"rssiS">> => -130,<<"size">> => 52,<<"stat">> =>  
1,<<"tmst">> => 4271961691}}] from 12291671073248440251 on 35152  
2022-06-27 21:35:05.955 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:05.980 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:06.008 1 [info] <0.8383.1>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:06.115 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "44.229.159.157":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:35:06.127 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 457 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:35:06.184 1 [info]  
<0.8383.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected

241 POCs for block height 1409875

```
2022-06-27 21:35:06.331 1 [info] <0.8385.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:35:06.332 1 [info] <0.8385.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.8384.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:35:06.433 1 [info] <0.8376.1>@blockchain_txn:absorb:{578,21}
took 32 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:35:06.485 1 [info] <0.8376.1>@blockchain_txn:absorb:{578,21}
took 48 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:35:06.548 1 [error] <0.8384.1>@http2_client:handle_settings:822
gen_server <0.8384.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:35:06.550 1 [error] <0.8384.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8384.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:35:06.550 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8385.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 21:35:06.551 1 [error] <0.8385.1>@Undefined:Undefined:Undefined
gen_server <0.8385.1> terminated with reason: connection_down
2022-06-27 21:35:06.551 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:35:06.551 1 [error] <0.8385.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8385.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:35:06.552 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:35:06.552 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:35:06.554 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8384.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"44.229.159.157">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6432>,socket_mon =>
#Ref<0.155928093.3973316611.213503>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8385.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```



2022-06-27 21:35:06.554 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8385.1>,connection\_down} 2022-06-27 21:35:06.566 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21} took 80 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:06.642 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21} took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:06.701 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21} took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:06.786 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21} took 84 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:06.875 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21} took 89 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:06.929 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21} took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:06.958 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21} took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:06.993 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21} took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:07.023 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #{"stat":> => #{"ackr":> => 0.0,<"dwnb"> => 0,<"rxfw"> => 1,<"rxnb"> => 1,<"rxok"> => 1,<"temp"> => 0.0,<"time"> => <"2022-06-27 21:35:07 GMT">,<"txnb"> => 0}} from 12291671073248440251 on 35152

2022-06-27 21:35:07.024 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{"ackr":> => 0.0,<"dwnb"> => 0,<"rxfw"> => 1,<"rxnb"> => 1,<"rxok"> => 1,<"temp"> => 0.0,<"time"> => <"2022-06-27 21:35:07 GMT">,<"txnb"> => 0}

2022-06-27 21:35:07.025 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway #gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6229,dropped=0,status=#{"ackr":> => 0.0,<"dwnb"> => 0,<"rxfw"> => 1,<"rxnb"> => 1,<"rxok"> => 1,<"temp"> => 0.0,<"time"> => <"2022-06-27 21:35:07 GMT">,<"txnb"> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 21:35:07.028 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21} took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:07.058 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21} took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:07.111 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21} took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:07.178 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21} took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:35:07.264 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}

took 85 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:07.319 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:07.372 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:07.426 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:07.466 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:07.547 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 80 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:07.636 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 85 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:07.681 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:07.752 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:07.857 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 104 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:07.917 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:07.964 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:08.019 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:08.091 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:08.184 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 94 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:08.274 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 90 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:08.369 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 95 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:08.435 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:08.492 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:08.560 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:08.632 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:08.706 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:08.747 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}

took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:08.805 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:08.855 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:08.951 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.015 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.081 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.153 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.208 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.274 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.326 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.391 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.452 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.526 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.605 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.673 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.727 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.758 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.827 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.902 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:09.956 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.022 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.126 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 104 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.173 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}

took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.217 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.265 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.338 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.434 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 96 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.527 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.587 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.628 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.660 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.699 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.758 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.802 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.875 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.938 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:10.998 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.064 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.116 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21} took  
48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.161 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21} took  
41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.209 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.249 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.312 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.374 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.423 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}

took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.481 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.531 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.594 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.655 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.692 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.743 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.805 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.853 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.896 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.944 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:11.980 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.018 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.077 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.131 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.167 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.221 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.290 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.342 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.379 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.452 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.547 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 94 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.602 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}

took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.681 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.764 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.825 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.873 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:12.955 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:13.044 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 89 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:13.128 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 83 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:13.227 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 98 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:13.310 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 83 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:13.398 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 88 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:13.437 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:13.503 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:13.549 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:13.609 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:13.674 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:13.734 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:13.776 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:13.841 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:13.913 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:13.982 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.041 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.106 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}

took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.192 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.265 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.332 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.380 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.433 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.488 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.541 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.568 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.642 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.698 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.757 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.819 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.881 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:14.946 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.008 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.085 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.146 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.212 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.271 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.331 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.392 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.442 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}

took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.513 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.562 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.608 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.676 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.770 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.820 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.881 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:35:15.888 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:15.982 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:16.047 1 [info] <0.8376.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:35:16.164 1 [info]  
<0.8376.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected  
212 POCs for block height 1409926  
2022-06-27 21:35:16.355 1 [error] emulator@Undefined:Undefined:Undefined  
Error in process <0.8376.1> on node 'miner@127.0.0.1' with exit value: {{badmatch,  
{error,{error,"Corruption: block checksum mismatch: stored = 1975174337,  
computed = 3807013015 in /var/data/blockchain.db/015769.sst offset 486887 size  
514635"}},[{blockchain,save\_block,2,[{file,"blockchain.erl"}, {line,2535}]},  
{blockchain,'-add\_block\_/3-fun-0-',5,[{file,"blockchain.erl"}, {line,1136}]},  
{blockchain\_txn,unvalidated\_absorb\_and\_commit,4, [{file,"blockchain\_txn.erl"},  
{line,508}]},{blockchain,add\_block\_,3, [{file,"blockchain.erl"},{line,1157}]},  
{blockchain,'-check\_plausible\_blocks/2- fun-1-',4,[{file,"blockchain.erl"},  
{line,2989}]},{lists,foreach,2,[{file,"lists.erl"}, {line,1342}]},  
{blockchain,check\_plausible\_blocks,2,[{file,"blockchain.erl"}, {line,2983}]}}}  
2022-06-27 21:35:16.372 1 [info] <0.1662.0>@blockchain\_worker:handle\_info:  
{673,53} block sync down: normal  
2022-06-27 21:35:16.554 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "35.82.239.134":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:35:16.772 1 [info] <0.8388.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary



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2022-06-27 21:35:16.773 1 [info] <0.8388.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.8387.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:35:16.987 1 [error] <0.8387.1>@http2_client:handle_settings:822
gen_server <0.8387.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:35:16.990 1 [error] <0.8387.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8387.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:35:16.991 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8388.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:35:16.991 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:35:16.992 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
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2022-06-27 21:35:16.992 1 [error] <0.8388.1>@Undefined:Undefined:Undefined  
gen\_server <0.8388.1> terminated with reason: connection\_down  
2022-06-27 21:35:16.992 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 21:35:16.992 1 [error] <0.8388.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.8388.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 21:35:16.993 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.8387.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,  
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "35.82.239.134",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6433>,socket\_mon =>  
#Ref<0.155928093.3973578754.162793>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.8388.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}]}

2022-06-27 21:35:16.994 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.8388.1>,connection\_down}  
2022-06-27 21:35:26.038 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:35:26.995 1 [info]

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<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:35:27.207 1 [info] <0.8393.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:35:27.207 1 [info] <0.8393.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.8392.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:35:27.413 1 [error] <0.8392.1>@http2_client:handle_settings:822
gen_server <0.8392.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:35:27.415 1 [error] <0.8392.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8392.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:35:27.415 1 [error] <0.8393.1>@Undefined:Undefined:Undefined
gen_server <0.8393.1> terminated with reason: connection_down
2022-06-27 21:35:27.416 1 [error] <0.8393.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8393.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:35:27.416 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8393.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:35:27.416 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:35:27.416 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:35:27.417 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:35:27.418 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8392.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6434>,socket_mon =>
#Ref<0.155928093.3973316611.214419>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8393.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]]}
2022-06-27 21:35:27.419 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

in setup state: Type: info, Msg: {'EXIT',<0.8393.1>,connection\_down} 2022-06-27 21:35:36.188 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:35:37.029 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:35:37 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 21:35:37.029 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:35:37 GMT">>,<<"txnb">> => 0}  
2022-06-27 21:35:37.031 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway #gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6233,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:35:37 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 21:35:37.419 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.104.32.11": {gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:35:37.736 1 [info] <0.8396.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 21:35:37.738 1 [info] <0.8396.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.104.32.11">>,http\_connection => <0.8395.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 21:35:38.046 1 [error] <0.8395.1>@http2\_client:handle\_settings:822 gen\_server <0.8395.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 21:35:38.047 1 [error] <0.8395.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.8395.1> with 0 neighbours crashed with reason: no

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:35:38.048 1 [error] <0.8396.1>@Undefined:Undefined:Undefined
gen_server <0.8396.1> terminated with reason: connection_down
2022-06-27 21:35:38.049 1 [error] <0.8396.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8396.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:35:38.049 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8396.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:35:38.049 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:35:38.050 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:35:38.051 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:35:38.053 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8395.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
```

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{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>, <<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>, <<"application/grpc+proto">>}}, {53,
{<<":authority">>, <<"3.104.32.11">>}}, {63, {<<":path">>, <<"/helium.gateway/
validators">>}}}], host => "3.104.32.11", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.6435>, socket_mon =>
#Ref<0.155928093.3973316611.214575>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.8396.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}], timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file, "http2_client.erl"}, {line, 822}],
{http2_client, handle_packet, 2, [{file, "http2_client.erl"}, {line, 648}]},
{gen_server, try_dispatch, 4, [{file, "gen_server.erl"}, {line, 695}]},
{gen_server, handle_msg, 6, [{file, "gen_server.erl"}, {line, 771}]},
{proc_lib, init_p_do_apply, 3, [{file, "proc_lib.erl"}, {line, 226}]}}]
2022-06-27 21:35:38.054 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT', <0.8396.1>, connection_down}
2022-06-27 21:35:46.354 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:35:48.054 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb, 1}
2022-06-27 21:35:48.278 1 [info] <0.8422.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:35:48.279 1 [info] <0.8422.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>, compression =>
none, connection => #{client => http2_client, host =>
<<"13.215.29.4">>, http_connection => <0.8419.1>, scheme =>
<<"http">>}, encoder => gateway_miner_client_pb, headers_sent => false, input =>
gateway_validators_req_v1_pb, input_stream => false, metadata => #{}}, name =>
validators, opts => [], output => gateway_resp_v1_pb, output_stream =>
false, package => [], queue => {[], []}, response_pending => false, rpc =>
validators, service => 'helium.gateway', state => idle, stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:35:48.494 1 [error] <0.8419.1>@http2_client:handle_settings:822
gen_server <0.8419.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:35:48.494 1 [error] <0.8419.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8419.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:35:48.495 1 [error] <0.8422.1>@Undefined:Undefined:Undefined
gen_server <0.8422.1> terminated with reason: connection_down
2022-06-27 21:35:48.495 1 [error] <0.8422.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8422.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:35:48.495 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8422.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:35:48.496 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:35:48.496 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:35:48.496 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:35:48.498 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8419.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```



```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6436>,socket_mon =>
#Ref<0.155928093.3973316611.214856>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8422.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:35:48.499 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8422.1>,connection_down}
2022-06-27 21:35:56.518 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:35:58.498 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:35:58.566 1 [info] <0.8428.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:35:58.568 1 [info] <0.8428.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.8427.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:35:58.628 1 [error] <0.8427.1>@http2_client:handle_settings:822
gen_server <0.8427.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:35:58.630 1 [error] <0.8427.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8427.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:35:58.630 1 [error] <0.8428.1>@Undefined:Undefined:Undefined
gen_server <0.8428.1> terminated with reason: connection_down
2022-06-27 21:35:58.631 1 [error] <0.8428.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8428.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:35:58.631 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8428.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:35:58.632 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:35:58.632 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:35:58.632 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

2022-06-27 21:35:58.633 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8427.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6437>,socket_mon =>
#Ref<0.155928093.3973316611.215036>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8428.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]}
```

2022-06-27 21:35:58.634 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8428.1>,connection_down}
```

2022-06-27 21:36:06.661 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 21:36:07.032 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:36:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

```
2022-06-27 21:36:07.033 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 21:36:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:36:07.034 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6237,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:36:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:36:08.635 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:36:08.900 1 [info] <0.8437.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:36:08.901 1 [info] <0.8437.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.8436.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:36:09.162 1 [error] <0.8436.1>@http2_client:handle_settings:822
gen_server <0.8436.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:36:09.165 1 [error] <0.8436.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8436.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:36:09.166 1 [error] <0.8437.1>@Undefined:Undefined:Undefined
gen_server <0.8437.1> terminated with reason: connection_down
2022-06-27 21:36:09.167 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8437.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 21:36:09.167 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:36:09.167 1 [error] <0.8437.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8437.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:36:09.168 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:36:09.169 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:36:09.172 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8436.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"18.230.8.198">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6438>,socket_mon =>
#Ref<0.155928093.3973316611.215287>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8437.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 21:36:09.173 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8437.1>,connection_down}
2022-06-27 21:36:16.801 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:36:17.657 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.8439.1>, Ref:
#Ref<0.155928093.3973316611.215447>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 21:36:19.172 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:36:19.433 1 [info] <0.8444.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:36:19.435 1 [info] <0.8444.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.8443.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:36:19.691 1 [error] <0.8443.1>@http2_client:handle_settings:822
gen_server <0.8443.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:36:19.695 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8444.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl"},{line,418}}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]
2022-06-27 21:36:19.695 1 [error] <0.8443.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8443.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:36:19.696 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:36:19.696 1 [error] <0.8444.1>@Undefined:Undefined:Undefined
gen_server <0.8444.1> terminated with reason: connection_down
2022-06-27 21:36:19.697 1 [error] <0.8444.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8444.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:36:19.698 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:36:19.699 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:36:19.702 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8443.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.39.165.144">>}}},{63,<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6439>,socket_mon =>
#Ref<0.155928093.3973316611.215511>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8444.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl"},{line,226}}}]}}
2022-06-27 21:36:19.704 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8444.1>,connection_down} 2022-06-27
21:36:26.941 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:36:28.651 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:36:29.701 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:36:31.434 1 [info] <0.1662.0>@blockchain_worker:start_sync:
{888,13} new block sync starting with Pid: <0.8448.1>, Ref:
#Ref<0.155928093.3973316611.215713>, Peer: "/p2p/
112R2HYvGELfZyZdQV1QGRXD87hR6tSuqtQfKQ8SaHn48FpCp9Sy"
2022-06-27 21:36:31.870 1 [warning]
<0.1639.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
112fDR1eZt7fsbNFUtDi1njUKt2ecaKvwurnZkKjb3rZuptmt4S8": [{"/
ip4/73.70.76.102/tcp/44158",timeout}]
2022-06-27 21:36:32.502 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112R2HYvGELfZyZdQV1QGRXD87hR6tSuqtQfKQ8SaHn48FpCp9Sy" informed us
of our observed address "/ip4/80.77.186.186/tcp/61582"
2022-06-27 21:36:37.031 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:36:37 GMT">>,<<"txnb">> => 0}} from
```



12291671073248440251 on 35152  
2022-06-27 21:36:37.032 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:36:37 GMT">>,<<"txnb">> => 0}  
2022-06-27 21:36:37.033 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6240,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:36:37 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 21:36:37.084 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:36:45.268 1 [info] <0.8459.1>@blockchain\_sync\_handler:handle\_data:{132,5} adding sync blocks [1409926,1409927,1409928,1409929,1409930]  
2022-06-27 21:36:47.227 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:36:48.169 1 [info] <0.8459.1>@blockchain\_sync\_handler:handle\_data:{142,13} Eagerly re-gossiping 1409930  
2022-06-27 21:36:49.769 1 [info] <0.8468.1>@blockchain\_txn:validate:{299,5} valid: [], invalid: []  
2022-06-27 21:36:49.851 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21} took 30 ms to absorb blockchain\_txn\_payment\_v1  
2022-06-27 21:36:50.158 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21} took 290 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:36:50.261 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21} took 356 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:36:50.615 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21} took 457 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:36:50.725 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21} took 464 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:36:50.771 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21} took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:50.834 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21} took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:50.865 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21} took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:50.890 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21} took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:36:50.942 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:50.971 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:50.998 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.031 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 305 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:36:51.064 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.096 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.145 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.190 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.222 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.255 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.286 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.312 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.340 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.365 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.386 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 354 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:36:51.400 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.451 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.486 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.537 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.564 1 [info] <0.8476.1>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:51.723 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 337 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:36:51.748 1 [info]  
<0.8476.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected

241 POCs for block height 1409875

2022-06-27 21:36:52.009 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:52.063 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:52.126 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:52.197 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:52.255 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:52.343 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 88 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:52.432 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 89 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:52.538 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 106 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:52.589 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:52.651 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:52.701 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:52.746 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:52.829 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:52.918 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 88 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:53.006 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 88 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:53.063 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:53.120 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:53.178 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:53.218 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:53.299 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 81 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:53.388 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 85 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:53.435 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}

took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:53.511 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:53.615 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 104 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:53.677 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:53.727 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:53.786 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:53.858 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:53.958 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 100 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.039 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 81 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.086 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.116 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.159 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.206 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.267 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.340 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.382 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.440 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.521 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.571 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.629 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.673 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.726 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.774 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}

took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.848 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.938 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 89 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:54.965 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.114 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.149 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.181 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.249 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.333 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 83 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.393 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.431 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.472 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.521 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.560 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.599 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.632 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.685 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.728 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.798 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.853 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.908 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:55.957 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.016 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}

took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.073 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.123 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.191 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.282 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 90 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.327 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.400 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.490 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 89 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.589 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 98 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.669 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.753 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 84 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.799 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.834 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.867 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.904 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.940 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:56.976 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.024 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.086 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.121 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.165 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.225 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.266 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}

took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.316 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.342 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.384 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:36:57.386 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.445 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.498 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.545 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.609 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.640 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.692 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.748 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.790 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.869 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:57.942 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:58.009 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:58.116 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 106 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:58.161 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:58.218 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:58.318 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 100 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:58.410 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 91 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:58.501 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 91 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:36:58.589 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 87 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:58.680 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 87 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:58.723 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:58.784 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:58.831 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:58.900 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:58.953 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:59.001 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:59.084 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:59.180 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 96 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:59.220 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:59.301 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 80 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:59.385 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 84 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:59.449 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:59.498 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:59.540 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:59.575 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:59.602 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:59.652 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:59.686 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:36:59.712 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,



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{file,"miner_poc_grpc_client_statem.erl"},{line,719}}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]
2022-06-27 21:36:59.713 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:36:59.714 1 [error] <0.8447.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8447.1> with 0 neighbours exited with reason: timeout
in gen_server:init_it/6 line 407
2022-06-27 21:36:59.714 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8447.1>,timeout}
2022-06-27 21:36:59.751 1 [info] <0.8468.1>@blockchain_txn:absorb:{578,21}
took 61 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:36:59.813 1 [info] <0.8468.1>@blockchain_txn:absorb:{578,21}
took 55 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:36:59.850 1 [info] <0.8468.1>@blockchain_txn:absorb:{578,21}
took 36 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:36:59.908 1 [info] <0.8468.1>@blockchain_txn:absorb:{578,21}
took 54 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:36:59.957 1 [info] <0.8468.1>@blockchain_txn:absorb:{578,21}
took 49 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:37:00.032 1 [info] <0.8468.1>@blockchain_txn:absorb:{578,21}
took 75 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:37:00.126 1 [info] <0.8468.1>@blockchain_txn:absorb:{578,21}
took 94 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:37:00.197 1 [info] <0.8468.1>@blockchain_txn:absorb:{578,21}
took 71 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:37:00.275 1 [info] <0.8468.1>@blockchain_txn:absorb:{578,21}
took 78 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:37:00.340 1 [info] <0.8468.1>@blockchain_txn:absorb:{578,21}
took 64 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:37:00.444 1 [info] <0.8468.1>@blockchain_txn:absorb:{578,21}
took 104 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:37:00.521 1 [info] <0.8468.1>@blockchain_txn:absorb:{578,21}
took 77 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:37:00.568 1 [info] <0.8468.1>@blockchain_txn:absorb:{578,21}
took 47 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:37:00.613 1 [info] <0.8468.1>@blockchain_txn:absorb:{578,21}
took 45 ms to absorb blockchain_txn_poc_receipts_v2
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2022-06-27 21:37:00.658 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21} took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:37:00.698 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21} took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:37:00.790 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21} took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:37:00.882 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21} took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:37:00.954 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21} took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:37:01.021 1 [info] <0.8468.1>@blockchain\_txn:absorb:{578,21} took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:37:01.149 1 [info] <0.8468.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected 212 POCs for block height 1409926

2022-06-27 21:37:01.364 1 [error] emulator@Undefined:Undefined:Undefined Error in process <0.8468.1> on node 'miner@127.0.0.1' with exit value: {{badmatch, {error,{error,"Corruption: block checksum mismatch: stored = 1975174337, computed = 3807013015 in /var/data/blockchain.db/015769.sst offset 486887 size 514635"}},[{blockchain,save\_block,2,[{file,"blockchain.erl"}, {line,2535}]}, {blockchain,'-add\_block\_/3-fun-0-',5,[{file,"blockchain.erl"}, {line,1136}]}, {blockchain\_txn,unvalidated\_absorb\_and\_commit,4,[{file,"blockchain\_txn.erl"}, {line,508}]}, {blockchain,add\_block\_,3,[{file,"blockchain.erl"},{line,1157}]}, {blockchain,'-check\_plausible\_blocks/2- fun-1-',4,[{file,"blockchain.erl"}, {line,2989}]}, {lists,foreach,2,[{file,"lists.erl"}, {line,1342}]}, {blockchain,check\_plausible\_blocks,2,[{file,"blockchain.erl"}, {line,2983}]}}}}

2022-06-27 21:37:01.384 1 [info] <0.1662.0>@blockchain\_worker:handle\_info: {673,53} block sync down: normal

2022-06-27 21:37:07.029 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #{{<<"stat">> => #{{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:37:07 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 21:37:07.030 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:37:07 GMT">>,<<"txnb">> => 0}}

2022-06-27 21:37:07.031 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway #gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6244,dropped=0,status=#{{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:37:07 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}}

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2022-06-27 21:37:07.561 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:37:09.714 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:37:09.783 1 [info] <0.8498.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:37:09.785 1 [info] <0.8498.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.8497.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:37:09.849 1 [error] <0.8497.1>@http2_client:handle_settings:822
gen_server <0.8497.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:37:09.854 1 [error] <0.8497.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8497.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:37:09.855 1 [error] <0.8498.1>@Undefined:Undefined:Undefined
gen_server <0.8498.1> terminated with reason: connection_down
2022-06-27 21:37:09.855 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8498.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
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{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:37:09.856 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:37:09.856 1 [error] <0.8498.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8498.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:37:09.856 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:37:09.857 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:37:09.861 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8497.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.72.143.228">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6451>,socket_mon =>
#Ref<0.155928093.3973578754.164638>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8498.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]}],
```

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{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 21:37:09.861 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8498.1>,connection_down}
2022-06-27 21:37:17.722 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:37:19.860 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:37:20.121 1 [info] <0.8502.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:37:20.123 1 [info] <0.8502.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.8501.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:37:20.379 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8502.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:37:20.379 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:37:20.380 1 [error] <0.8501.1>@http2_client:handle_settings:822
```

```
gen_server <0.8501.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:37:20.380 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:37:20.380 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:37:20.381 1 [error] <0.8501.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8501.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:37:20.382 1 [error] <0.8502.1>@Undefined:Undefined:Undefined
gen_server <0.8502.1> terminated with reason: connection_down
2022-06-27 21:37:20.383 1 [error] <0.8502.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8502.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:37:20.384 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8501.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6452>,socket_mon =>
#Ref<0.155928093.3973578754.164688>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8502.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:37:20.385 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8502.1>,connection_down}
2022-06-27 21:37:21.708 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1638.0>
2022-06-27 21:37:27.854 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:37:30.383 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:37:30.646 1 [info] <0.8513.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:37:30.647 1 [info] <0.8513.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.8512.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:37:30.907 1 [error] <0.8512.1>@http2_client:handle_settings:822
gen_server <0.8512.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:37:30.908 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8513.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 21:37:30.909 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:37:30.909 1 [error] <0.8512.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8512.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:37:30.910 1 [error] <0.8513.1>@Undefined:Undefined:Undefined
gen_server <0.8513.1> terminated with reason: connection_down
2022-06-27 21:37:30.911 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:37:30.911 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:37:30.911 1 [error] <0.8513.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8513.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:37:30.914 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8512.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],}],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
```



```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6453>,socket_mon =>
#Ref<0.155928093.3974365185.74194>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8513.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}
2022-06-27 21:37:30.915 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8513.1>,connection_down}
2022-06-27 21:37:37.038 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:37:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:37:37.038 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:37:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:37:37.039 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6248,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:37:37 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:37:37.994 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:37:40.915 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:37:40.985 1 [info] <0.8517.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:37:40.988 1 [info] <0.8517.1>@grpc_client_stream_custom:init:
```

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.8516.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:37:41.043 1 [error] <0.8516.1>@http2_client:handle_settings:822
gen_server <0.8516.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:37:41.045 1 [error] <0.8516.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8516.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:37:41.046 1 [error] <0.8517.1>@Undefined:Undefined:Undefined
gen_server <0.8517.1> terminated with reason: connection_down
2022-06-27 21:37:41.046 1 [error] <0.8517.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8517.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:37:41.047 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8517.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:37:41.047 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
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```
<<"stream create failed">>}}
2022-06-27 21:37:41.047 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:37:41.047 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:37:41.049 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8516.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6454>,socket_mon =>
#Ref<0.155928093.3974365185.74386>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8517.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 21:37:41.050 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8517.1>,connection_down} 2022-06-27
21:37:48.158 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:37:51.050 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
```

```
{gateway_validators_req_v1_pb,1}
2022-06-27 21:37:51.126 1 [info] <0.8521.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:37:51.127 1 [info] <0.8521.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.8520.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:37:51.200 1 [error] <0.8520.1>@http2_client:handle_settings:822
gen_server <0.8520.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:37:51.202 1 [error] <0.8520.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8520.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:37:51.202 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8521.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:37:51.203 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 21:37:51.203 1 [error] <0.8521.1>@Undefined:Undefined:Undefined  
gen\_server <0.8521.1> terminated with reason: connection\_down  
2022-06-27 21:37:51.204 1 [error] <0.8521.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.8521.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 21:37:51.204 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 21:37:51.205 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 21:37:51.208 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.8520.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"52.30.111.82">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}]}},host => "52.30.111.82",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6455>,socket\_mon =>  
#Ref<0.155928093.3974365185.74588>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.8521.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]  
2022-06-27 21:37:51.208 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.8521.1>,connection\_down}  
2022-06-27 21:37:58.298 1 [info]

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<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:38:01.208 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:38:01.465 1 [info] <0.8543.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:38:01.466 1 [info] <0.8543.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.8542.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:38:01.711 1 [error] <0.8542.1>@http2_client:handle_settings:822
gen_server <0.8542.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:38:01.713 1 [error] <0.8542.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8542.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:38:01.713 1 [error] <0.8543.1>@Undefined:Undefined:Undefined
gen_server <0.8543.1> terminated with reason: connection_down
2022-06-27 21:38:01.714 1 [error] <0.8543.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8543.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:38:01.714 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8543.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

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{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:38:01.714 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:38:01.715 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:38:01.715 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:38:01.717 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8542.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6456>,socket_mon =>
#Ref<0.155928093.3973316611.216941>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8543.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}}
2022-06-27 21:38:01.718 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8543.1>,connection_down}
2022-06-27 21:38:07.037 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:38:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:38:07.038 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:38:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:38:07.040 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6252,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:38:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:38:08.475 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:38:11.718 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:38:11.869 1 [info] <0.8546.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:38:11.871 1 [info] <0.8546.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.8545.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:38:12.016 1 [error] <0.8545.1>@http2_client:handle_settings:822
gen_server <0.8545.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```



```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 21:38:12.018 1 [error] <0.8545.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8545.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 21:38:12.019 1 [error] <0.8546.1>@Undefined:Undefined:Undefined
gen_server <0.8546.1> terminated with reason: connection_down
2022-06-27 21:38:12.019 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8546.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:38:12.019 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:38:12.019 1 [error] <0.8546.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8546.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:38:12.020 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:38:12.020 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:38:12.023 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8545.1>,{function_clause,
[{http2_client,handle_settings,
[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6457>,socket_mon =>
#Ref<0.155928093.3973316611.216979>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8546.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 21:38:12.024 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8546.1>,connection_down}
2022-06-27 21:38:18.618 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:38:22.023 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:38:22.285 1 [info] <0.8550.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:38:22.288 1 [info] <0.8550.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.8549.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 21:38:22.538 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8550.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:38:22.538 1 [error] <0.8549.1>@http2_client:handle_settings:822
gen_server <0.8549.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:38:22.538 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:38:22.539 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:38:22.539 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:38:22.540 1 [error] <0.8549.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8549.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:38:22.540 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8549.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6458>,socket_mon =>
#Ref<0.155928093.3974365185.75363>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8550.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:38:22.540 1 [error] <0.8550.1>@Undefined:Undefined:Undefined
gen_server <0.8550.1> terminated with reason: connection_down
2022-06-27 21:38:22.540 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8550.1>,connection_down}
2022-06-27 21:38:22.541 1 [error] <0.8550.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8550.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:38:28.768 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:38:30.386 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.8558.1>, Ref:
#Ref<0.155928093.3974365185.75545>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ" 2022-06-27
21:38:32.542 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:38:32.875 1 [info] <0.8563.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 21:38:32.877 1 [info] <0.8563.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.8562.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:38:33.188 1 [error] <0.8562.1>@http2_client:handle_settings:822
gen_server <0.8562.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:38:33.189 1 [error] <0.8562.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8562.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:38:33.189 1 [error] <0.8563.1>@Undefined:Undefined:Undefined
gen_server <0.8563.1> terminated with reason: connection_down
2022-06-27 21:38:33.190 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8563.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:38:33.190 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:38:33.190 1 [error] <0.8563.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.8563.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 21:38:33.190 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 21:38:33.190 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 21:38:33.192 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.8562.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,  
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "3.24.161.210",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6459>,socket\_mon =>  
#Ref<0.155928093.3974365185.75613>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.8563.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}]  
2022-06-27 21:38:33.192 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.8563.1>,connection\_down}  
2022-06-27 21:38:37.038 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>

```
<<"2022-06-27 21:38:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:38:37.038 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:38:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:38:37.039 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6256,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:38:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:38:38.908 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:38:41.671 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:38:43.193 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:38:43.454 1 [info] <0.8566.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:38:43.456 1 [info] <0.8566.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.8565.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:38:43.720 1 [error] <0.8565.1>@http2_client:handle_settings:822
gen_server <0.8565.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:38:43.722 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8566.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:38:43.723 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:38:43.726 1 [error] <0.8565.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8565.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:38:43.727 1 [error] <0.8566.1>@Undefined:Undefined:Undefined
gen_server <0.8566.1> terminated with reason: connection_down
2022-06-27 21:38:43.728 1 [error] <0.8566.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8566.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:38:43.729 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:38:43.729 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:38:43.734 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8565.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
```



```
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6460>,socket_mon =>
#Ref<0.155928093.3974365185.75821>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8566.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 21:38:43.734 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8566.1>,connection_down}
2022-06-27 21:38:49.048 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:38:53.732 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:38:53.953 1 [info] <0.8569.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:38:53.954 1 [info] <0.8569.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.8568.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:38:54.170 1 [error] <0.8568.1>@http2_client:handle_settings:822
gen_server <0.8568.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:38:54.171 1 [error] <0.8568.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8568.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:38:54.172 1 [error] <0.8569.1>@Undefined:Undefined:Undefined
gen_server <0.8569.1> terminated with reason: connection_down
2022-06-27 21:38:54.172 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8569.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:38:54.172 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:38:54.172 1 [error] <0.8569.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8569.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:38:54.173 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:38:54.174 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:38:54.175 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8568.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6461>,socket_mon =>
#Ref<0.155928093.3974365185.76009>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8569.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:38:54.176 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8569.1>,connection_down}
2022-06-27 21:38:59.204 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:39:01.083 1 [warning]
<0.1645.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/
ip4/54.77.28.37/tcp/443": {exit,{normal,{gen_server,call,[<0.7843.1>,open]}}}
2022-06-27 21:39:04.176 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:39:04.494 1 [info] <0.8582.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:39:04.497 1 [info] <0.8582.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.8579.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:39:04.804 1 [error] <0.8579.1>@http2_client:handle_settings:822
gen_server <0.8579.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:39:04.804 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8582.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:39:04.805 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:39:04.805 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:39:04.805 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:39:04.805 1 [error] <0.8579.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8579.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:39:04.806 1 [error] <0.8582.1>@Undefined:Undefined:Undefined
gen_server <0.8582.1> terminated with reason: connection_down
2022-06-27 21:39:04.807 1 [error] <0.8582.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8582.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:39:04.807 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8579.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"13.237.155.172">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6462>,socket_mon =>
#Ref<0.155928093.3974365185.76299>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8582.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:39:04.808 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8582.1>,connection_down} 2022-06-27
21:39:07.034 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:39:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:39:07.034 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:39:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:39:07.035 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6260,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:39:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:39:09.367 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:39:12.835 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.8592.1>, Ref:
#Ref<0.155928093.3974365185.76563>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 21:39:14.808 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:39:14.874 1 [info] <0.8597.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:39:14.875 1 [info] <0.8597.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.8596.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:39:14.940 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8597.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:39:14.940 1 [error] <0.8596.1>@http2_client:handle_settings:822
```

```
gen_server <0.8596.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:39:14.941 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:39:14.942 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:39:14.942 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:39:14.942 1 [error] <0.8596.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8596.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:39:14.944 1 [error] <0.8597.1>@Undefined:Undefined:Undefined
gen_server <0.8597.1> terminated with reason: connection_down
2022-06-27 21:39:14.944 1 [error] <0.8597.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8597.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:39:14.948 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8596.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6463>,socket_mon =>
```

```
#Ref<0.155928093.3974365185.76635>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8597.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 21:39:14.949 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8597.1>,connection_down}
2022-06-27 21:39:19.512 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:39:21.762 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11Kvh5zmSFtMuLawGSbRMteMvhq5KPr63naG8CkWb47dLQ7tbWK" informed us
of our observed address "/ip4/80.77.186.186/tcp/45901"
2022-06-27 21:39:23.990 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:39:24.945 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:39:25.199 1 [info] <0.8617.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:39:25.201 1 [info] <0.8617.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.8616.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:39:25.447 1 [error] <0.8616.1>@http2_client:handle_settings:822
gen_server <0.8616.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```



```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:39:25.448 1 [error] <0.8616.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8616.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:39:25.450 1 [error] <0.8617.1>@Undefined:Undefined:Undefined
gen_server <0.8617.1> terminated with reason: connection_down
2022-06-27 21:39:25.451 1 [error] <0.8617.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8617.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:39:25.451 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8617.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:39:25.451 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:39:25.452 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:39:25.452 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:39:25.454 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8616.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6471>,socket_mon =>
#Ref<0.155928093.3974365185.77059>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8617.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:39:25.454 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8617.1>,connection_down}
2022-06-27 21:39:29.652 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:39:35.455 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:39:35.773 1 [info] <0.8620.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:39:35.774 1 [info] <0.8620.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.8619.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 21:39:36.088 1 [error] <0.8619.1>@http2_client:handle_settings:822
gen_server <0.8619.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:39:36.088 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8620.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:39:36.089 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:39:36.089 1 [error] <0.8619.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8619.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:39:36.089 1 [error] <0.8620.1>@Undefined:Undefined:Undefined
gen_server <0.8620.1> terminated with reason: connection_down
2022-06-27 21:39:36.089 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:39:36.089 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:39:36.090 1 [error] <0.8620.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8620.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:39:36.090 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.8619.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6472>,socket_mon =>
#Ref<0.155928093.3973578754.165672>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8620.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:39:36.091 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8620.1>,connection_down}
2022-06-27 21:39:37.042 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:39:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:39:37.044 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:39:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:39:37.045 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6264,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
```

```
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:39:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:39:39.804 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:39:46.092 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:39:46.244 1 [info] <0.8623.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:39:46.245 1 [info] <0.8623.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.8622.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:39:46.386 1 [error] <0.8622.1>@http2_client:handle_settings:822
gen_server <0.8622.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:39:46.388 1 [error] <0.8622.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8622.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:39:46.389 1 [error] <0.8623.1>@Undefined:Undefined:Undefined
gen_server <0.8623.1> terminated with reason: connection_down
2022-06-27 21:39:46.390 1 [error] <0.8623.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8623.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:39:46.391 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8623.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{"file","gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 21:39:46.391 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:39:46.391 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:39:46.391 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:39:46.393 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8622.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6473>,socket_mon =>
#Ref<0.155928093.3974365185.77162>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8623.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:39:46.393 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8623.1>,connection_down}
2022-06-27 21:39:49.948 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:39:56.394 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:39:56.716 1 [info] <0.8626.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:39:56.719 1 [info] <0.8626.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.8625.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:39:57.031 1 [error] <0.8625.1>@http2_client:handle_settings:822
gen_server <0.8625.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:39:57.032 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8626.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:39:57.032 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:39:57.033 1 [error] <0.8625.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8625.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:39:57.033 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:39:57.033 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:39:57.034 1 [error] <0.8626.1>@Undefined:Undefined:Undefined
gen_server <0.8626.1> terminated with reason: connection_down
2022-06-27 21:39:57.034 1 [error] <0.8626.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8626.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:39:57.035 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8625.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"13.237.155.172">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6474>,socket_mon =>
#Ref<0.155928093.3973316611.217665>,state => open,stream_count =>
```



```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8626.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 21:39:57.036 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8626.1>,connection_down}
2022-06-27 21:40:00.098 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:40:07.036 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:40:07.043 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:40:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:40:07.043 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:40:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:40:07.045 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6268,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:40:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:40:07.104 1 [info] <0.8632.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:40:07.105 1 [info] <0.8632.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.8631.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:40:07.168 1 [error] <0.8631.1>@http2_client:handle_settings:822
gen_server <0.8631.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:40:07.169 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8632.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:40:07.169 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:40:07.170 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:40:07.171 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:40:07.174 1 [error] <0.8631.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8631.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:40:07.174 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.8631.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6475>,socket_mon =>
#Ref<0.155928093.3973316611.217825>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8632.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:40:07.174 1 [error] <0.8632.1>@Undefined:Undefined:Undefined
gen_server <0.8632.1> terminated with reason: connection_down
2022-06-27 21:40:07.175 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8632.1>,connection_down}
2022-06-27 21:40:07.176 1 [error] <0.8632.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8632.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:40:10.231 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:40:17.174 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:40:17.240 1 [info] <0.8674.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 21:40:17.242 1 [info] <0.8674.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.8673.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:40:17.300 1 [error] <0.8673.1>@http2_client:handle_settings:822
gen_server <0.8673.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:40:17.302 1 [error] <0.8673.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8673.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:40:17.303 1 [error] <0.8674.1>@Undefined:Undefined:Undefined
gen_server <0.8674.1> terminated with reason: connection_down
2022-06-27 21:40:17.304 1 [error] <0.8674.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8674.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:40:17.307 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8674.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:40:17.307 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 21:40:17.307 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 21:40:17.308 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:40:17.309 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8673.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66, {<<"content-type">>,<<"application/grpc+proto">>}}],{54, {<<":authority">>,<<"3.72.143.228">>}}],{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.72.143.228",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6482>,socket\_mon => #Ref<0.155928093.3973316611.218018>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.8674.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}]}

2022-06-27 21:40:17.309 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8674.1>,connection\_down} 2022-06-27 21:40:18.899 1 [info] <0.1662.0>@blockchain\_worker:target\_sync: {836,5} targeted block sync starting with Pid: <0.8681.1>, Ref: #Ref<0.155928093.3973316611.218073>, Peer: "/p2p/112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"

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2022-06-27 21:40:20.374 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:40:27.310 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:40:27.456 1 [info] <0.8692.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:40:27.458 1 [info] <0.8692.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.8691.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:40:27.594 1 [error] <0.8691.1>@http2_client:handle_settings:822
gen_server <0.8691.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:40:27.596 1 [error] <0.8691.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8691.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:40:27.596 1 [error] <0.8692.1>@Undefined:Undefined:Undefined
gen_server <0.8692.1> terminated with reason: connection_down
2022-06-27 21:40:27.596 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8692.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}],
```

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{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:40:27.597 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:40:27.597 1 [error] <0.8692.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8692.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:40:27.598 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:40:27.598 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:40:27.599 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8691.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"3.13.130.184">>}],{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6483>,socket_mon =>
#Ref<0.155928093.3973316611.218244>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8692.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]}],
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 21:40:27.600 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8692.1>,connection_down}
2022-06-27 21:40:30.234 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:40:30.515 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:40:37.049 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:40:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:40:37.050 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:40:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:40:37.051 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6272,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:40:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:40:37.601 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:40:37.674 1 [info] <0.8695.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:40:37.675 1 [info] <0.8695.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.8694.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:40:37.748 1 [error] <0.8694.1>@http2_client:handle_settings:822
```



```
gen_server <0.8694.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:40:37.752 1 [error] <0.8694.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8694.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:40:37.752 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8695.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:40:37.752 1 [error] <0.8695.1>@Undefined:Undefined:Undefined
gen_server <0.8695.1> terminated with reason: connection_down
2022-06-27 21:40:37.752 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:40:37.753 1 [error] <0.8695.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8695.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:40:37.753 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:40:37.753 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:40:37.755 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8694.1>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {52,
{<<":authority">>,<<"52.30.1.39">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6484>,socket_mon =>
#Ref<0.155928093.3974365185.77855>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8695.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:40:37.755 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8695.1>,connection_down}
2022-06-27 21:40:40.654 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:40:47.756 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:40:48.017 1 [info] <0.8698.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:40:48.019 1 [info] <0.8698.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.8697.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:40:48.268 1 [error] <0.8697.1>@http2_client:handle_settings:822
gen_server <0.8697.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:40:48.269 1 [error] <0.8697.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8697.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:40:48.270 1 [error] <0.8698.1>@Undefined:Undefined:Undefined
gen_server <0.8698.1> terminated with reason: connection_down
2022-06-27 21:40:48.270 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8698.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:40:48.271 1 [error] <0.8698.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8698.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:40:48.271 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:40:48.271 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:40:48.271 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 21:40:48.273 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8697.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{54, {<<":authority">>,<<"18.230.8.198">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "18.230.8.198",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6485>,socket\_mon => #Ref<0.155928093.3974365185.77932>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.8698.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]  
2022-06-27 21:40:48.273 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8698.1>,connection\_down}  
2022-06-27 21:40:50.798 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:40:53.305 1 [info] <0.1662.0>@blockchain\_worker:target\_sync: {836,5} targeted block sync starting with Pid: <0.8700.1>, Ref: #Ref<0.155928093.3973316611.218612>, Peer: "/p2p/112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"  
2022-06-27 21:40:58.274 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.49.199.40":

```
{gateway_validators_req_v1_pb,1}
2022-06-27 21:41:00.935 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:41:04.302 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:41:07.047 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:41:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:41:07.048 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:41:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:41:07.050 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6276,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:41:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:41:11.081 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:41:21.225 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:41:28.277 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}]
2022-06-27 21:41:28.277 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:41:28.278 1 [error] <0.8704.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8704.1> with 0 neighbours exited with reason:
```

timeout in gen\_server:init\_it/6 line 407  
2022-06-27 21:41:28.278 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.8704.1>,timeout}  
2022-06-27 21:41:31.371 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:41:37.051 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:41:37 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 21:41:37.052 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:41:37 GMT">>,<<"txnb">> => 0}  
2022-06-27 21:41:37.053 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=6280,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:41:37 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 21:41:38.280 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "35.82.239.134":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:41:38.495 1 [info] <0.8740.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 21:41:38.496 1 [info] <0.8740.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"35.82.239.134">>,http\_connection => <0.8739.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 21:41:38.701 1 [error] <0.8739.1>@http2\_client:handle\_settings:822  
gen\_server <0.8739.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:41:38.703 1 [error] <0.8739.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8739.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:41:38.703 1 [error] <0.8740.1>@Undefined:Undefined:Undefined
gen_server <0.8740.1> terminated with reason: connection_down
2022-06-27 21:41:38.704 1 [error] <0.8740.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8740.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:41:38.704 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8740.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:41:38.705 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:41:38.705 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:41:38.705 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:41:38.706 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8739.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6488>,socket_mon =>
#Ref<0.155928093.3974365185.78441>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8740.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:41:38.707 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8740.1>,connection_down}
2022-06-27 21:41:41.518 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:41:48.708 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:41:48.925 1 [info] <0.8743.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:41:48.926 1 [info] <0.8743.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.8742.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```



```
2022-06-27 21:41:49.136 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8743.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:41:49.136 1 [error] <0.8742.1>@http2_client:handle_settings:822
gen_server <0.8742.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:41:49.136 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:41:49.137 1 [error] <0.8742.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8742.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:41:49.137 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:41:49.137 1 [error] <0.8743.1>@Undefined:Undefined:Undefined
gen_server <0.8743.1> terminated with reason: connection_down
2022-06-27 21:41:49.137 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:41:49.138 1 [error] <0.8743.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8743.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:41:49.139 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.8742.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6489>,socket_mon =>
#Ref<0.155928093.3974365185.78515>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8743.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:41:49.140 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8743.1>,connection_down}
2022-06-27 21:41:51.654 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:41:59.139 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:41:59.355 1 [info] <0.8752.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:41:59.357 1 [info] <0.8752.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.8751.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:41:59.562 1 [error] <0.8751.1>@http2_client:handle_settings:822
gen_server <0.8751.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:41:59.564 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8752.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:41:59.564 1 [error] <0.8751.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8751.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:41:59.564 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:41:59.564 1 [error] <0.8752.1>@Undefined:Undefined:Undefined
gen_server <0.8752.1> terminated with reason: connection_down
2022-06-27 21:41:59.564 1 [error] <0.8752.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8752.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:41:59.565 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 21:41:59.565 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:41:59.566 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8751.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6490>,socket_mon =>
#Ref<0.155928093.3974365185.78642>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8752.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}]}
2022-06-27 21:41:59.566 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8752.1>,connection_down}
2022-06-27 21:42:01.801 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:42:07.049 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:42:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

2022-06-27 21:42:07.050 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:42:07 GMT">>,<<"txnb">> => 0}

2022-06-27 21:42:07.052 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6284,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:42:07 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 21:42:09.568 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.38.70.101":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 21:42:11.947 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:42:21.710 1 [info] <0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for peerbook <0.1640.0>

2022-06-27 21:42:22.091 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:42:30.856 1 [info] <0.1662.0>@blockchain\_worker:target\_sync: {836,5} targeted block sync starting with Pid: <0.8771.1>, Ref: #Ref<0.155928093.3973316611.220124>, Peer: "/p2p/112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"

2022-06-27 21:42:32.231 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:42:37.048 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:42:37 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 21:42:37.049 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:42:37 GMT">>,<<"txnb">> => 0}

2022-06-27 21:42:37.051 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6284,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:42:37 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

```
ed=6288,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:42:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:42:39.571 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}]
2022-06-27 21:42:39.571 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:42:39.572 1 [error] <0.8754.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8754.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 21:42:39.572 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8754.1>,timeout}
2022-06-27 21:42:42.361 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:42:42.363 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:42:49.574 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:42:49.788 1 [info] <0.8781.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:42:49.790 1 [info] <0.8781.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.8780.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

miner\_poc\_grpc\_client\_handler

2022-06-27 21:42:49.994 1 [error] <0.8780.1>@http2\_client:handle\_settings:822  
gen\_server <0.8780.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:42:49.996 1 [error] <0.8780.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.8780.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:42:49.997 1 [error] <0.8781.1>@Undefined:Undefined:Undefined  
gen\_server <0.8781.1> terminated with reason: connection\_down

2022-06-27 21:42:49.998 1 [error] <0.8781.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.8781.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:42:49.999 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.8781.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},

{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},

{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},

{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]}

2022-06-27 21:42:50.000 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 21:42:50.001 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 21:42:50.001 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 21:42:50.005 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8780.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6492>,socket_mon =>
#Ref<0.155928093.3974365185.79180>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8781.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:42:50.005 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8781.1>,connection_down}
2022-06-27 21:42:52.508 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:43:00.004 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:43:00.321 1 [info] <0.8784.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:43:00.324 1 [info] <0.8784.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.8783.1>,scheme =>
```



```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:43:00.627 1 [error] <0.8783.1>@http2_client:handle_settings:822
gen_server <0.8783.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:43:00.628 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8784.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:43:00.628 1 [error] <0.8783.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8783.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:43:00.628 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:43:00.628 1 [error] <0.8784.1>@Undefined:Undefined:Undefined
gen_server <0.8784.1> terminated with reason: connection_down
2022-06-27 21:43:00.629 1 [error] <0.8784.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8784.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:43:00.629 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 21:43:00.629 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:43:00.630 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8783.1>,{function\_clause,

[{http2\_client,handle\_settings,

[[],0,<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

{state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42,

{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,

{<<"content-type">>,<<"application/grpc+proto">>}},{53,

{<<":authority">>,<<"3.104.32.11">>}},{63,<<":path">>,<<"/helium.gateway/

validators">>}}],host => "3.104.32.11",last\_stream => 1,owner =>

<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size

=> 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},server\_window => 65528,socket => #Port<0.6493>,socket\_mon =>

#Ref<0.155928093.3974365185.79369>,state => open,stream\_count =>

1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>

1,owner => <0.8784.1>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>

gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}],

{http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}],

{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}],

{gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}],

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}]}

2022-06-27 21:43:00.631 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8784.1>,connection\_down}

2022-06-27 21:43:02.657 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:43:07.052 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA

#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>

0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>

<<"2022-06-27 21:43:07 GMT">>,<<"txnb">> => 0}} from

12291671073248440251 on 35152

2022-06-27 21:43:07.052 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:43:07 GMT">>,<<"txnb">> => 0}

2022-06-27 21:43:07.054 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway

#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6292,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:43:07 GMT">>,<<"txnb">> =>

0},rtt\_samples=[],rtt=5000000}

2022-06-27 21:43:10.632 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.220.227.216":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 21:43:10.854 1 [info] <0.8787.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 21:43:10.855 1 [info] <0.8787.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"52.220.227.216">>,http\_connection => <0.8786.1>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}},name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 21:43:11.069 1 [error] <0.8786.1>@http2\_client:handle\_settings:822 gen\_server <0.8786.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:43:11.070 1 [error] <0.8786.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.8786.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:43:11.071 1 [error] <0.8787.1>@Undefined:Undefined:Undefined gen\_server <0.8787.1> terminated with reason: connection\_down

2022-06-27 21:43:11.071 1 [error] <0.8787.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.8787.1> with 0 neighbours exited with reason:

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:43:11.072 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8787.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:43:11.072 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:43:11.072 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:43:11.072 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:43:11.074 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8786.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6494>,socket_mon =>
```

```
#Ref<0.155928093.3974365185.79534>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8787.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 21:43:11.074 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8787.1>,connection_down}
2022-06-27 21:43:12.797 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:43:21.075 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:43:21.299 1 [info] <0.8791.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:43:21.302 1 [info] <0.8791.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.8789.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:43:21.519 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8791.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl",{line,418}}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]]},
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:43:21.519 1 [error] <0.8789.1>@http2_client:handle_settings:822
gen_server <0.8789.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:43:21.519 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:43:21.521 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:43:21.521 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:43:21.522 1 [error] <0.8789.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8789.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:43:21.522 1 [error] <0.8791.1>@Undefined:Undefined:Undefined
gen_server <0.8791.1> terminated with reason: connection_down
2022-06-27 21:43:21.523 1 [error] <0.8791.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8791.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:43:21.527 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8789.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{55,
{<<":authority">>,<<"54.251.77.229">>}}],{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6495>,socket_mon =>
#Ref<0.155928093.3974365185.79690>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8791.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:43:21.527 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8791.1>,connection_down}
2022-06-27 21:43:22.945 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:43:31.524 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:43:31.780 1 [info] <0.8808.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:43:31.781 1 [info] <0.8808.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.8807.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:43:32.036 1 [error] <0.8807.1>@http2_client:handle_settings:822
gen_server <0.8807.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 21:43:32.038 1 [error] <0.8807.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8807.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:43:32.038 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8808.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:43:32.039 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:43:32.040 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:43:32.041 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:43:32.042 1 [error] <0.8808.1>@Undefined:Undefined:Undefined
gen_server <0.8808.1> terminated with reason: connection_down
2022-06-27 21:43:32.043 1 [error] <0.8808.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8808.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:43:32.044 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8807.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```



```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"18.228.158.83">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6496>,socket_mon =>
#Ref<0.155928093.3974365185.80035>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8808.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:43:32.045 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8808.1>,connection_down}
2022-06-27 21:43:33.081 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:43:36.928 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.8817.1>, Ref:
#Ref<0.155928093.3974365185.80232>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 21:43:37.047 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:43:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:43:37.048 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:43:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:43:37.049 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=6296,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:43:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:43:42.044 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:43:42.264 1 [info] <0.8823.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:43:42.266 1 [info] <0.8823.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.8822.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:43:42.481 1 [error] <0.8822.1>@http2_client:handle_settings:822
gen_server <0.8822.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:43:42.481 1 [error] <0.8822.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8822.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:43:42.482 1 [error] <0.8823.1>@Undefined:Undefined:Undefined
gen_server <0.8823.1> terminated with reason: connection_down
2022-06-27 21:43:42.482 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8823.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:43:42.482 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:43:42.482 1 [error] <0.8823.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8823.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:43:42.483 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:43:42.483 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:43:42.485 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8822.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6497>,socket_mon =>
#Ref<0.155928093.3974365185.80396>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8823.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:43:42.485 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8823.1>,connection_down}
2022-06-27 21:43:43.234 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:43:48.256 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:43:52.485 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:43:52.551 1 [info] <0.8830.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:43:52.553 1 [info] <0.8830.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.8829.1>,>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:43:52.610 1 [error] <0.8829.1>@http2_client:handle_settings:822
gen_server <0.8829.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:43:52.612 1 [error] <0.8829.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8829.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:43:52.613 1 [error] <0.8830.1>@Undefined:Undefined:Undefined
gen_server <0.8830.1> terminated with reason: connection_down
2022-06-27 21:43:52.613 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8830.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[[file,"gen_server.erl"],{line,247}]],
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]},{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]},
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]},
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]]
2022-06-27 21:43:52.613 1 [error] <0.8830.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8830.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:43:52.613 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:43:52.614 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:43:52.614 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:43:52.615 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8829.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"3.122.38.248">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]],host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6498>,socket_mon =>
#Ref<0.155928093.3974365185.80652>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8830.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:43:52.616 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8830.1>,connection_down}
2022-06-27 21:43:53.377 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:44:02.617 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:44:02.766 1 [info] <0.8833.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:44:02.767 1 [info] <0.8833.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.8832.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:44:02.904 1 [error] <0.8832.1>@http2_client:handle_settings:822
gen_server <0.8832.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:44:02.906 1 [error] <0.8832.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8832.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 21:44:02.907 1 [error] <0.8833.1>@Undefined:Undefined:Undefined
gen_server <0.8833.1> terminated with reason: connection_down
2022-06-27 21:44:02.907 1 [error] <0.8833.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8833.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:44:02.907 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8833.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:44:02.907 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:44:02.908 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:44:02.908 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:44:02.909 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8832.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {54,
{<<":authority">>,<<"3.137.92.200">>}}, {63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.137.92.200",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6499>,socket_mon =>
#Ref<0.155928093.3974365185.80851>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8833.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:44:02.909 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8833.1>,connection_down}
2022-06-27 21:44:03.527 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:44:07.051 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:44:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:44:07.052 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:44:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:44:07.055 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6300,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:44:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:44:12.911 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:44:13.175 1 [info] <0.8836.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```



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2022-06-27 21:44:13.176 1 [info] <0.8836.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.8835.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:44:13.434 1 [error] <0.8835.1>@http2_client:handle_settings:822
gen_server <0.8835.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:44:13.436 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8836.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:44:13.437 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:44:13.438 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:44:13.438 1 [error] <0.8835.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8835.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 21:44:13.438 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:44:13.439 1 [error] <0.8836.1>@Undefined:Undefined:Undefined gen\_server <0.8836.1> terminated with reason: connection\_down

2022-06-27 21:44:13.439 1 [error] <0.8836.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.8836.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:44:13.442 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8835.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{56, {<<":authority">>,<<"18.228.115.118">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "18.228.115.118",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6500>,socket\_mon => #Ref<0.155928093.3974365185.80950>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.8836.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}

2022-06-27 21:44:13.442 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8836.1>,connection\_down} 2022-06-27 21:44:13.678 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:44:23.440 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send

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unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:44:23.752 1 [info] <0.8839.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:44:23.754 1 [info] <0.8839.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.8838.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:44:23.827 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:44:24.060 1 [error] <0.8838.1>@http2_client:handle_settings:822
gen_server <0.8838.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:44:24.062 1 [error] <0.8838.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8838.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:44:24.063 1 [error] <0.8839.1>@Undefined:Undefined:Undefined
gen_server <0.8839.1> terminated with reason: connection_down
2022-06-27 21:44:24.063 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8839.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

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{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 21:44:24.063 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:44:24.063 1 [error] <0.8839.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8839.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:44:24.063 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:44:24.063 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:44:24.065 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8838.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6501>,socket_mon =>
#Ref<0.155928093.3974365185.81055>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8839.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
```

2022-06-27 21:44:24.065 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8839.1>,connection\_down}

2022-06-27 21:44:33.981 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:44:34.065 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.39.165.144":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 21:44:34.327 1 [info] <0.8853.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 21:44:34.328 1 [info] <0.8853.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.39.165.144">>,http\_connection => <0.8850.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 21:44:34.585 1 [error] <0.8850.1>@http2\_client:handle\_settings:822 gen\_server <0.8850.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:44:34.588 1 [error] <0.8850.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.8850.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:44:34.589 1 [error] <0.8853.1>@Undefined:Undefined:Undefined gen\_server <0.8853.1> terminated with reason: connection\_down

2022-06-27 21:44:34.589 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.8853.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

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{file,"miner_poc_grpc_client_statem.erl"},{line,721}}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 21:44:34.590 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:44:34.590 1 [error] <0.8853.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8853.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:44:34.591 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:44:34.591 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:44:34.593 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8850.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6502>,socket_mon =>
#Ref<0.155928093.3974365185.81246>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8853.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:44:34.594 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8853.1>,connection_down}
2022-06-27 21:44:37.058 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:44:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:44:37.059 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:44:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:44:37.060 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6304,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:44:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:44:41.465 1 [info]
<0.1635.0>@libp2p_group_gossip_server:remove_worker:{682,59} Deleted 1 pids
from seed
2022-06-27 21:44:41.465 1 [info]
<0.1635.0>@libp2p_group_gossip_server:remove_worker:{682,59} Deleted 2 pids
from peerbook
2022-06-27 21:44:41.466 1 [info]
<0.1635.0>@libp2p_group_gossip_server:remove_worker:{682,59} Deleted 11 pids
from inbound
2022-06-27 21:44:44.128 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:44:44.594 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:44:44.915 1 [info] <0.8862.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:44:44.916 1 [info] <0.8862.1>@grpc_client_stream_custom:init:
```

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.8861.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:44:45.230 1 [error] <0.8861.1>@http2_client:handle_settings:822
gen_server <0.8861.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:44:45.234 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8862.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:44:45.234 1 [error] <0.8861.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8861.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:44:45.234 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:44:45.235 1 [error] <0.8862.1>@Undefined:Undefined:Undefined
gen_server <0.8862.1> terminated with reason: connection_down
2022-06-27 21:44:45.235 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```



client error response

2022-06-27 21:44:45.235 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:44:45.235 1 [error] <0.8862.1>@Undefined:Undefined:Undefined

CRASH REPORT Process <0.8862.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:44:45.239 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8861.1>,{function\_clause,

{http2\_client,handle\_settings,

[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,

{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,

{<<"content-type">>,<<"application/grpc+proto">>}},{54,

{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/

validators">>}}}],host => "3.24.161.210",last\_stream => 1,owner =>

<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size

=> 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},server\_window => 65528,socket => #Port<0.6503>,socket\_mon =>

#Ref<0.155928093.3974365185.81469>,state => open,stream\_count =>

1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>

1,owner => <0.8862.1>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>

gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}],

{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}],

{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}],

{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}],

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}}]}]}

2022-06-27 21:44:45.239 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8862.1>,connection\_down} 2022-06-27

21:44:47.594 1 [info] <0.1662.0>@blockchain\_worker:target\_sync: {836,5}

targeted block sync starting with Pid: <0.8869.1>, Ref:

#Ref<0.155928093.3974365185.81599>, Peer: "/p2p/

112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"

2022-06-27 21:44:54.271 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:44:55.238 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:44:55.495 1 [info] <0.8878.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:44:55.498 1 [info] <0.8878.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.8877.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:44:55.744 1 [error] <0.8877.1>@http2_client:handle_settings:822
gen_server <0.8877.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:44:55.746 1 [error] <0.8877.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8877.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:44:55.746 1 [error] <0.8878.1>@Undefined:Undefined:Undefined
gen_server <0.8878.1> terminated with reason: connection_down
2022-06-27 21:44:55.746 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8878.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 21:44:55.747 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:44:55.747 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:44:55.747 1 [error] <0.8878.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8878.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:44:55.748 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:44:55.751 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8877.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6504>,socket_mon =>
#Ref<0.155928093.3974365185.81878>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8878.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
```

```
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]]}
2022-06-27 21:44:55.752 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8878.1>,connection_down}
2022-06-27 21:44:58.934 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:45:04.421 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:45:05.751 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:45:05.899 1 [info] <0.8881.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:45:05.900 1 [info] <0.8881.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.8880.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:45:06.045 1 [error] <0.8880.1>@http2_client:handle_settings:822
gen_server <0.8880.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:45:06.048 1 [error] <0.8880.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8880.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:45:06.048 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8881.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]}],
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 21:45:06.049 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:45:06.049 1 [error] <0.8881.1>@Undefined:Undefined:Undefined
gen_server <0.8881.1> terminated with reason: connection_down
2022-06-27 21:45:06.050 1 [error] <0.8881.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8881.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:45:06.051 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:45:06.051 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:45:06.055 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8880.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6505>,socket_mon =>
#Ref<0.155928093.3974365185.82081>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8881.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 21:45:06.056 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8881.1>,connection_down}
2022-06-27 21:45:07.058 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:45:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:45:07.058 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:45:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:45:07.059 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6308,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:45:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:45:12.804 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11cj2i45BLjL5NR5nensjLA6aiwwjasiw7MQbGYiAhW4trh41gY" informed us of our
observed address "/ip4/80.77.186.186/tcp/6410"
2022-06-27 21:45:13.213 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.8899.1>, Ref:
#Ref<0.155928093.3973316611.220887>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ" 2022-06-27
21:45:14.574 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:45:16.054 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:45:17.327 1 [info] <0.8904.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

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2022-06-27 21:45:17.329 1 [info] <0.8904.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.8903.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:45:17.584 1 [error] <0.8903.1>@http2_client:handle_settings:822
gen_server <0.8903.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:45:17.586 1 [error] <0.8903.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8903.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:45:17.586 1 [error] <0.8904.1>@Undefined:Undefined:Undefined
gen_server <0.8904.1> terminated with reason: connection_down
2022-06-27 21:45:17.586 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8904.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:45:17.587 1 [error] <0.8904.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8904.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:45:17.587 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 21:45:17.588 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 21:45:17.588 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 21:45:17.590 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.8903.1>,{function\_clause,  
[http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "18.228.158.83",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6511>,socket\_mon =>  
#Ref<0.155928093.3974365185.82300>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.8904.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 21:45:17.591 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.8904.1>,connection\_down} 2022-06-27  
21:45:18.686 1 [info] <0.1636.0>@libp2p\_peerbook:notify\_peers: {726,5}  
gossiping out 114 notify peers  
2022-06-27 21:45:24.311 1 [info] <0.1662.0>@blockchain\_worker:handle\_info:  
{673,53} block sync down: normal



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2022-06-27 21:45:24.721 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:45:27.590 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:45:27.666 1 [info] <0.8910.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:45:27.667 1 [info] <0.8910.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.8909.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:45:27.746 1 [error] <0.8909.1>@http2_client:handle_settings:822
gen_server <0.8909.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:45:27.750 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8910.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:45:27.750 1 [error] <0.8909.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8909.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 21:45:27.750 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:45:27.751 1 [error] <0.8910.1>@Undefined:Undefined:Undefined
gen_server <0.8910.1> terminated with reason: connection_down
2022-06-27 21:45:27.751 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:45:27.751 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:45:27.752 1 [error] <0.8910.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8910.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:45:27.755 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8909.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6512>,socket_mon =>
#Ref<0.155928093.3974365185.82477>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8910.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
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{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 21:45:27.755 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8910.1>,connection_down}
2022-06-27 21:45:34.868 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:45:37.053 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:45:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:45:37.055 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:45:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:45:37.058 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6312,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:45:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:45:37.754 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:45:38.017 1 [info] <0.8913.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:45:38.018 1 [info] <0.8913.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.8912.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:45:38.275 1 [error] <0.8912.1>@http2_client:handle_settings:822
gen_server <0.8912.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:45:38.277 1 [error] <0.8912.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8912.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:45:38.277 1 [error] <0.8913.1>@Undefined:Undefined:Undefined
gen_server <0.8913.1> terminated with reason: connection_down
2022-06-27 21:45:38.278 1 [error] <0.8913.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8913.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:45:38.279 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8913.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:45:38.279 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:45:38.279 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:45:38.279 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:45:38.281 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8912.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"18.228.158.83">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6513>,socket_mon =>
#Ref<0.155928093.3973316611.221394>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8913.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 21:45:38.282 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8913.1>,connection_down}
2022-06-27 21:45:45.018 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:45:46.608 1 [info] <0.1662.0>@blockchain_worker:start_sync:
{888,13} new block sync starting with Pid: <0.8915.1>, Ref:
#Ref<0.155928093.3973316611.221504>, Peer: "/p2p/
1127VrFz8F3n5kDVw9FarihKsBK93JZM347Jjg54uW3qw99rG1rG"
2022-06-27 21:45:48.161 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
1127VrFz8F3n5kDVw9FarihKsBK93JZM347Jjg54uW3qw99rG1rG" informed us of
our observed address "/ip4/80.77.186.186/tcp/8569"
2022-06-27 21:45:48.282 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:45:48.356 1 [info] <0.8932.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 21:45:48.357 1 [info] <0.8932.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.8931.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:45:48.430 1 [error] <0.8931.1>@http2_client:handle_settings:822
gen_server <0.8931.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:45:48.433 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8932.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:45:48.433 1 [error] <0.8931.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8931.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:45:48.433 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:45:48.433 1 [error] <0.8932.1>@Undefined:Undefined:Undefined
gen_server <0.8932.1> terminated with reason: connection_down
2022-06-27 21:45:48.434 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 21:45:48.434 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 21:45:48.436 1 [error] <0.8932.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.8932.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 21:45:48.436 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8931.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"52.210.14.128">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "52.210.14.128",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6519>,socket\_mon => #Ref<0.155928093.3973316611.221650>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.8932.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}]  
2022-06-27 21:45:48.437 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.8932.1>,connection\_down} 2022-06-27 21:45:55.165 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:45:55.281 1 [info]  
<0.8926.1>@blockchain\_sync\_handler:handle\_data:{132,5} adding sync blocks

```
[1409926,1409927,1409928,1409929,1409930]
2022-06-27 21:45:57.891 1 [info]
<0.8926.1>@blockchain_sync_handler:handle_data:{142,13} Eagerly re-gossiping
1409930
2022-06-27 21:45:58.438 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:45:58.758 1 [info] <0.8936.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:45:58.759 1 [info] <0.8936.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.8935.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:45:59.064 1 [error] <0.8935.1>@http2_client:handle_settings:822
gen_server <0.8935.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:45:59.066 1 [error] <0.8935.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8935.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:45:59.066 1 [error] <0.8936.1>@Undefined:Undefined:Undefined
gen_server <0.8936.1> terminated with reason: connection_down
2022-06-27 21:45:59.066 1 [error] <0.8936.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8936.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:45:59.067 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8936.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```



```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:45:59.067 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:45:59.067 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:45:59.067 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:45:59.068 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8935.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6520>,socket_mon =>
#Ref<0.155928093.3973054468.223130>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8936.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]}],
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:45:59.069 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8936.1>,connection_down} 2022-06-27
21:45:59.433 1 [info] <0.8934.1>@blockchain_txn:validate:{299,5} valid: [], invalid:
[]
2022-06-27 21:45:59.517 1 [info] <0.8944.1>@blockchain_txn:absorb:{578,21}
took 33 ms to absorb blockchain_txn_payment_v1
2022-06-27 21:45:59.820 1 [info] <0.8944.1>@blockchain_txn:absorb:{578,21}
took 283 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 21:45:59.934 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 373 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 21:46:00.242 1 [info] <0.8944.1>@blockchain_txn:absorb:{578,21}
took 422 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 21:46:00.268 1 [info] <0.8944.1>@blockchain_txn:absorb:{578,21}
took 26 ms to absorb blockchain_txn_validator_heartbeat_v1
2022-06-27 21:46:00.387 1 [info] <0.8944.1>@blockchain_txn:absorb:{578,21}
took 56 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:00.417 1 [info] <0.8944.1>@blockchain_txn:absorb:{578,21}
took 30 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:00.443 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 509 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 21:46:00.447 1 [info] <0.8944.1>@blockchain_txn:absorb:{578,21}
took 29 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:00.523 1 [info] <0.8944.1>@blockchain_txn:absorb:{578,21}
took 75 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:00.598 1 [info] <0.8944.1>@blockchain_txn:absorb:{578,21}
took 75 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:00.649 1 [info] <0.8944.1>@blockchain_txn:absorb:{578,21}
took 51 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:00.699 1 [info] <0.8944.1>@blockchain_txn:absorb:{578,21}
took 48 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:00.748 1 [info] <0.8944.1>@blockchain_txn:absorb:{578,21}
took 48 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:00.800 1 [info] <0.8944.1>@blockchain_txn:absorb:{578,21}
took 51 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:00.846 1 [info] <0.8944.1>@blockchain_txn:absorb:{578,21}
took 45 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:00.876 1 [info] <0.8944.1>@blockchain_txn:absorb:{578,21}
took 28 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:00.896 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 453 ms to absorb blockchain_txn_assert_location_v2
```

2022-06-27 21:46:00.931 1 [info] <0.8944.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:00.972 1 [info] <0.8944.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:01.057 1 [info] <0.8944.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:01.084 1 [info] <0.8944.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:01.111 1 [info] <0.8944.1>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:01.198 1 [info] <0.8944.1>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:01.218 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 322 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:46:01.248 1 [info] <0.8944.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:01.284 1 [info] <0.8944.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:01.329 1 [info] <0.8944.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:01.529 1 [info]  
<0.8944.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected  
241 POCs for block height 1409875  
2022-06-27 21:46:01.553 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 334 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 21:46:01.834 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:01.887 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:01.952 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:02.024 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:02.083 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:02.165 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:02.255 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 90 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:02.365 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 110 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:02.421 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:02.484 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}

took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:02.536 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:02.581 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:02.660 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:02.741 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 81 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:02.825 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 84 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:02.884 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:02.939 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:02.995 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.038 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.121 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.205 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 80 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.254 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.326 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.424 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 97 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.484 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.532 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.589 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.663 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.753 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 89 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.824 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.868 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.901 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}

took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.938 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:03.997 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.066 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.138 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.179 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.238 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.318 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.370 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.430 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.493 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.549 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.595 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.668 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.761 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 92 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.815 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.847 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.886 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.933 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:04.981 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.018 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.056 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.087 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}

took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.147 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.177 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.253 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.309 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:46:05.338 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 84 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.382 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.423 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.458 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.489 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.548 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.603 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.663 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.708 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.780 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.835 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.887 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.936 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:05.993 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.049 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.102 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.171 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 21:46:06.261 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 89 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.310 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.380 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.468 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 87 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.564 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 96 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.631 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.676 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.722 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.755 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.789 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.829 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.864 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.903 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:06.952 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:07.013 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:07.051 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:07.056 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:46:07 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 21:46:07.057 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 21:46:07 GMT">>,<<"txnb">> => 0}  
2022-06-27 21:46:07.058 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6316,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:46:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:46:07.095 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 44 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.152 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 57 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.196 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 43 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.222 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 25 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.258 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 33 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.289 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 31 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.335 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 45 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.391 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 56 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.440 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 49 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.504 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 63 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.538 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 29 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.613 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 49 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.684 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 71 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.749 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 64 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.828 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 78 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.913 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 66 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:07.972 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 54 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:08.016 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 41 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:08.092 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 76 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:08.141 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
```



took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:08.196 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:08.292 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 96 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:08.366 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:08.460 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 94 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:08.554 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:08.641 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 87 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:08.716 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 75 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:08.755 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:08.826 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:08.874 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:08.941 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:09.004 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:09.069 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.211.55.217":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:46:09.080 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 75 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:09.120 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:09.200 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:09.282 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:09.338 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:09.385 1 [info] <0.8946.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 21:46:09.386 1 [info] <0.8946.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>

```
<<"13.211.55.217">>,http_connection => <0.8945.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:46:09.389 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 51 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:09.431 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 42 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:09.466 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 33 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:09.492 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 26 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:09.539 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 27 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:09.575 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 33 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:09.633 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 54 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:09.693 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 53 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:09.710 1 [error] <0.8945.1>@http2_client:handle_settings:822
gen_server <0.8945.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:46:09.711 1 [error] <0.8945.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8945.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:46:09.714 1 [error] <0.8946.1>@Undefined:Undefined:Undefined
gen_server <0.8946.1> terminated with reason: connection_down
2022-06-27 21:46:09.715 1 [error] <0.8946.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8946.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:46:09.715 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8946.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
[{{file,"grpc_client_stream_custom.erl"},{line,418}}],{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 21:46:09.716 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:46:09.716 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:46:09.716 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:46:09.718 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8945.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{55,
{<<":authority">>,<<"13.211.55.217">>}}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6521>,socket_mon =>
#Ref<0.155928093.3974365185.84268>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8946.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:46:09.718 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8946.1>,connection_down} 2022-06-27
21:46:09.735 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21} took 41 ms to
absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:09.800 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 61 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:09.844 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 44 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:09.919 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 75 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:10.016 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 97 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:10.091 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 75 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:10.168 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 76 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:10.233 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 64 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:10.320 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 87 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:10.367 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 46 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:10.419 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 53 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:10.468 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 49 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:10.524 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 55 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:10.572 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 49 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:10.650 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 55 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:10.684 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 34 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:10.720 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
took 36 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 21:46:10.790 1 [info] <0.8934.1>@blockchain_txn:absorb:{578,21}
```

took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:10.830 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:10.900 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:10.998 1 [info] <0.8934.1>@blockchain\_txn:absorb:{578,21}  
took 98 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 21:46:11.141 1 [info]  
<0.8934.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected  
212 POCs for block height 1409926  
2022-06-27 21:46:11.352 1 [error] emulator@Undefined:Undefined:Undefined  
Error in process <0.8934.1> on node 'miner@127.0.0.1' with exit value: {{badmatch,  
{error,{error,"Corruption: block checksum mismatch: stored = 1975174337,  
computed = 3807013015 in /var/data/blockchain.db/015769.sst offset 486887 size  
514635"}},[{blockchain,save\_block,2,[{file,"blockchain.erl"}, {line,2535}]},  
{blockchain,'-add\_block\_/3-fun-0-',5,[{file,"blockchain.erl"}, {line,1136}]},  
{blockchain\_txn,unvalidated\_absorb\_and\_commit,4,[{file,"blockchain\_txn.erl"},  
{line,508}]},{blockchain,add\_block\_,3,[{file,"blockchain.erl"},{line,1157}]},  
{blockchain,'-check\_plausible\_blocks/2- fun-1-',4,[{file,"blockchain.erl"},  
{line,2989}]},{lists,foreach,2,[{file,"lists.erl"}, {line,1342}]},  
{blockchain,check\_plausible\_blocks,2,[{file,"blockchain.erl"}, {line,2983}]}}}  
2022-06-27 21:46:11.371 1 [info] <0.1662.0>@blockchain\_worker:handle\_info:  
{673,53} block sync down: normal  
2022-06-27 21:46:15.471 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:46:19.719 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.132.190.192":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:46:19.870 1 [info] <0.8955.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 21:46:19.871 1 [info] <0.8955.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"3.132.190.192">>,http\_connection => <0.8954.1>,scheme =>  
<<"http">>,encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 21:46:20.064 1 [error] <0.8954.1>@http2\_client:handle\_settings:822  
gen\_server <0.8954.1> terminated with reason: no function clause matching

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:46:20.064 1 [error] <0.8954.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8954.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:46:20.066 1 [error] <0.8955.1>@Undefined:Undefined:Undefined
gen_server <0.8955.1> terminated with reason: connection_down
2022-06-27 21:46:20.066 1 [error] <0.8955.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8955.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:46:20.067 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8955.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:46:20.068 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:46:20.068 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:46:20.069 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:46:20.071 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8954.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6522>,socket_mon =>
#Ref<0.155928093.3974365185.84615>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8955.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:46:20.072 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8955.1>,connection_down}
2022-06-27 21:46:25.625 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:46:30.072 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:46:30.292 1 [info] <0.8996.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:46:30.295 1 [info] <0.8996.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.8995.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:46:30.500 1 [error] <0.8995.1>@http2_client:handle_settings:822
gen_server <0.8995.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:46:30.501 1 [error] <0.8995.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8995.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:46:30.502 1 [error] <0.8996.1>@Undefined:Undefined:Undefined
gen_server <0.8996.1> terminated with reason: connection_down
2022-06-27 21:46:30.502 1 [error] <0.8996.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8996.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:46:30.503 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8996.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:46:30.503 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:46:30.504 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:46:30.504 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```



```
validator failed: {error,req_failed}
2022-06-27 21:46:30.505 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8995.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"44.229.159.157">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6524>,socket_mon =>
#Ref<0.155928093.3974365185.85092>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8996.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:46:30.506 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8996.1>,connection_down} 2022-06-27
21:46:35.761 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:46:37.060 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:46:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:46:37.061 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 21:46:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:46:37.062 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6320,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:46:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:46:40.506 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:46:40.826 1 [info] <0.8999.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:46:40.829 1 [info] <0.8999.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.8998.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:46:41.142 1 [error] <0.8998.1>@http2_client:handle_settings:822
gen_server <0.8998.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:46:41.142 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.8999.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 21:46:41.143 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:46:41.144 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:46:41.144 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:46:41.145 1 [error] <0.8998.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.8998.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:46:41.145 1 [error] <0.8999.1>@Undefined:Undefined:Undefined
gen_server <0.8999.1> terminated with reason: connection_down
2022-06-27 21:46:41.146 1 [error] <0.8999.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.8999.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:46:41.148 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8998.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6525>,socket_mon =>
#Ref<0.155928093.3974365185.85181>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.8999.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl"},{line,226}}}}}}
2022-06-27 21:46:41.150 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.8999.1>,connection_down}
2022-06-27 21:46:45.911 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:46:51.147 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:46:51.214 1 [info] <0.9003.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:46:51.216 1 [info] <0.9003.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.9002.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:46:51.275 1 [error] <0.9002.1>@http2_client:handle_settings:822
gen_server <0.9002.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:46:51.277 1 [error] <0.9002.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9002.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:46:51.278 1 [error] <0.9003.1>@Undefined:Undefined:Undefined
gen_server <0.9003.1> terminated with reason: connection_down
2022-06-27 21:46:51.279 1 [error] <0.9003.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.9003.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 21:46:51.279 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.9003.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 21:46:51.279 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 21:46:51.280 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 21:46:51.280 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 21:46:51.282 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.9002.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[],},encode\_state => {state,282,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{52,  
{<<":authority">>,<<"3.72.215.7">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "3.72.215.7",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

```
16384},server_window => 65528,socket => #Port<0.6526>,socket_mon =>
#Ref<0.155928093.3974365185.85262>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9003.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:46:51.282 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9003.1>,connection_down}
2022-06-27 21:46:52.062 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.9005.1>, Ref:
#Ref<0.155928093.3974365185.85281>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 21:46:56.064 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:46:58.091 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112S65xod1GDzGgJTVAoTQM785nnskYmt1xsN6rZJbUzn5pqTqMg" informed us of
our observed address "/ip4/80.77.186.186/tcp/13841"
2022-06-27 21:47:01.283 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:47:01.597 1 [info] <0.9026.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:47:01.598 1 [info] <0.9026.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.9025.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:47:01.908 1 [error] <0.9025.1>@http2_client:handle_settings:822
gen_server <0.9025.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:47:01.909 1 [error] <0.9025.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9025.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:47:01.909 1 [error] <0.9026.1>@Undefined:Undefined:Undefined
gen_server <0.9026.1> terminated with reason: connection_down
2022-06-27 21:47:01.910 1 [error] <0.9026.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9026.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:47:01.911 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9026.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:47:01.911 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:47:01.911 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:47:01.912 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:47:01.913 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9025.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6532>,socket_mon =>
#Ref<0.155928093.3974365185.85524>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9026.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 21:47:01.914 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9026.1>,connection_down}
2022-06-27 21:47:03.107 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:47:06.204 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:47:07.063 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:47:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:47:07.064 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:47:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:47:07.067 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
```



{440,5} Gateway

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6324,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:47:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:47:11.914 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "13.215.75.202":
```

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 21:47:12.135 1 [info] <0.9029.1>@grpc_client_stream_custom:init: {131,9} init stream for RPC validators and type unary
```

```
2022-06-27 21:47:12.136 1 [info] <0.9029.1>@grpc_client_stream_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"13.215.75.202">>,http_connection => <0.9028.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 21:47:12.350 1 [error] <0.9028.1>@http2_client:handle_settings:822 gen_server <0.9028.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 21:47:12.351 1 [error] <0.9028.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.9028.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 21:47:12.352 1 [error] <0.9029.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.9029.1> terminated with reason: connection_down
```

```
2022-06-27 21:47:12.353 1 [error] <0.9029.1>@Undefined:Undefined:Undefined
```

```
CRASH REPORT Process <0.9029.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 21:47:12.353 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.9029.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 21:47:12.354 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:47:12.354 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:47:12.354 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:47:12.356 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9028.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{55,
{<<":authority">>,<<"13.215.75.202">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6533>,socket_mon =>
#Ref<0.155928093.3974365185.85622>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9029.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[[file,"http2_client.erl"],{line,822}]],
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 21:47:12.356 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9029.1>,connection_down}
2022-06-27 21:47:16.345 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:47:21.712 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1643.0>
2022-06-27 21:47:22.357 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:47:22.677 1 [info] <0.9035.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:47:22.679 1 [info] <0.9035.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.9034.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:47:22.988 1 [error] <0.9034.1>@http2_client:handle_settings:822
gen_server <0.9034.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:47:22.989 1 [error] <0.9034.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9034.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:47:22.990 1 [error] <0.9035.1>@Undefined:Undefined:Undefined
gen_server <0.9035.1> terminated with reason: connection_down
2022-06-27 21:47:22.990 1 [error] <0.9035.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.9035.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 21:47:22.990 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.9035.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 21:47:22.991 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 21:47:22.991 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 21:47:22.991 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 21:47:22.993 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.9034.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[],},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.24.161.210">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "3.24.161.210",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

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16384},server_window => 65528,socket => #Port<0.6534>,socket_mon =>
#Ref<0.155928093.3974365185.85721>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9035.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}]
2022-06-27 21:47:22.994 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9035.1>,connection_down}
2022-06-27 21:47:26.491 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:47:32.994 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:47:33.070 1 [info] <0.9058.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:47:33.071 1 [info] <0.9058.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.9057.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:47:33.141 1 [error] <0.9057.1>@http2_client:handle_settings:822
gen_server <0.9057.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:47:33.142 1 [error] <0.9057.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9057.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

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<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 21:47:33.143 1 [error] <0.9058.1>@Undefined:Undefined:Undefined
gen_server <0.9058.1> terminated with reason: connection_down
2022-06-27 21:47:33.143 1 [error] <0.9058.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9058.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:47:33.143 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9058.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:47:33.144 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:47:33.144 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:47:33.144 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:47:33.145 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9057.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
```

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{<<":authority">>,<<"52.30.1.39">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6535>,socket_mon =>
#Ref<0.155928093.3973578754.169875>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9058.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 21:47:33.146 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9058.1>,connection_down}
2022-06-27 21:47:36.637 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:47:37.066 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:47:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:47:37.067 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:47:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:47:37.068 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6328,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:47:37 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:47:43.146 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:47:43.369 1 [info] <0.9061.1>@grpc_client_stream_custom:init:
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{131,9} init stream for RPC validators and type unary
2022-06-27 21:47:43.371 1 [info] <0.9061.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.9060.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:47:43.584 1 [error] <0.9060.1>@http2_client:handle_settings:822
gen_server <0.9060.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:47:43.584 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9061.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:47:43.585 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:47:43.585 1 [error] <0.9060.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9060.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:47:43.585 1 [error] <0.9061.1>@Undefined:Undefined:Undefined
gen_server <0.9061.1> terminated with reason: connection_down
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2022-06-27 21:47:43.585 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 21:47:43.585 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:47:43.585 1 [error] <0.9061.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.9061.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:47:43.587 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.9060.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"54.251.77.229">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "54.251.77.229",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6536>,socket\_mon => #Ref<0.155928093.3973578754.170012>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.9061.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]

2022-06-27 21:47:43.587 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.9061.1>,connection\_down}

2022-06-27 21:47:46.777 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

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2022-06-27 21:47:53.587 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:47:53.810 1 [info] <0.9065.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:47:53.812 1 [info] <0.9065.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.9064.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:47:54.029 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9065.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:47:54.029 1 [error] <0.9064.1>@http2_client:handle_settings:822
gen_server <0.9064.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:47:54.029 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:47:54.030 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
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2022-06-27 21:47:54.030 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:47:54.032 1 [error] <0.9064.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9064.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:47:54.033 1 [error] <0.9065.1>@Undefined:Undefined:Undefined
gen_server <0.9065.1> terminated with reason: connection_down
2022-06-27 21:47:54.034 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9064.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6537>,socket_mon =>
#Ref<0.155928093.3973578754.170168>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9065.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}}
2022-06-27 21:47:54.034 1 [error] <0.9065.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9065.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:47:54.034 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9065.1>,connection_down} 2022-06-27
21:47:56.914 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:48:04.033 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:48:04.298 1 [info] <0.9078.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:48:04.299 1 [info] <0.9078.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.9077.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:48:04.557 1 [error] <0.9077.1>@http2_client:handle_settings:822
gen_server <0.9077.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:48:04.558 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9078.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:48:04.558 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 21:48:04.559 1 [error] <0.9077.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9077.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:48:04.559 1 [error] <0.9078.1>@Undefined:Undefined:Undefined
gen_server <0.9078.1> terminated with reason: connection_down
2022-06-27 21:48:04.560 1 [error] <0.9078.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9078.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:48:04.560 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:48:04.560 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:48:04.563 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9077.1>,{function_clause,
[{'http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6538>,socket_mon =>
#Ref<0.155928093.3974365185.86248>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9078.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:48:04.563 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9078.1>,connection_down}
2022-06-27 21:48:07.058 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:48:07.067 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:48:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:48:07.068 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:48:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:48:07.069 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6332,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:48:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:48:14.563 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:48:14.783 1 [info] <0.9082.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:48:14.785 1 [info] <0.9082.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.9081.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:48:15.001 1 [error] <0.9081.1>@http2_client:handle_settings:822
gen_server <0.9081.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:48:15.003 1 [error] <0.9081.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9081.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:48:15.004 1 [error] <0.9082.1>@Undefined:Undefined:Undefined
gen_server <0.9082.1> terminated with reason: connection_down
2022-06-27 21:48:15.004 1 [error] <0.9082.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9082.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:48:15.004 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9082.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:48:15.004 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:48:15.005 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:48:15.005 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:48:15.006 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9081.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {53,
{<<":authority">>,<<"13.215.29.4">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6539>,socket_mon =>
#Ref<0.155928093.3974365185.86300>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9082.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:48:15.006 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9082.1>,connection_down}
2022-06-27 21:48:17.224 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:48:17.687 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.9084.1>, Ref:
#Ref<0.155928093.3973578754.170468>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 21:48:18.437 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 3,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAHVeaX2AC2+ADMmoQctulEOHD+9dvKvYE1GBnVjO8MuMFuf7aA3Lwx
uL4SZkcaSfQ==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
297,<<"freq">> => 867.1,<<"jver">> => 1,<<"lsnr">> => -17.5,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -112,<<"rssi">>
=> -128,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 769541489}} from
12291671073248440251 on 35152
```



```
2022-06-27 21:48:25.007 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:48:25.222 1 [info] <0.9089.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:48:25.224 1 [info] <0.9089.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.9088.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:48:25.431 1 [error] <0.9088.1>@http2_client:handle_settings:822
gen_server <0.9088.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:48:25.433 1 [error] <0.9088.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9088.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:48:25.433 1 [error] <0.9089.1>@Undefined:Undefined:Undefined
gen_server <0.9089.1> terminated with reason: connection_down
2022-06-27 21:48:25.434 1 [error] <0.9089.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9089.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:48:25.434 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9089.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}],
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:48:25.434 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:48:25.435 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:48:25.435 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:48:25.437 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9088.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}],{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{55,
{<<":authority">>,<<"35.82.239.134">>}],{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6540>,socket_mon =>
#Ref<0.155928093.3974365185.86382>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9089.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 21:48:25.438 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9089.1>,connection_down}
2022-06-27 21:48:27.371 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:48:28.730 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:48:35.438 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:48:35.659 1 [info] <0.9108.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:48:35.660 1 [info] <0.9108.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.9105.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:48:35.878 1 [error] <0.9105.1>@http2_client:handle_settings:822
gen_server <0.9105.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:48:35.879 1 [error] <0.9105.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9105.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:48:35.880 1 [error] <0.9108.1>@Undefined:Undefined:Undefined
gen_server <0.9108.1> terminated with reason: connection_down
2022-06-27 21:48:35.880 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9108.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:48:35.881 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:48:35.881 1 [error] <0.9108.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9108.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:48:35.882 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:48:35.882 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:48:35.884 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9105.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6541>,socket_mon =>
#Ref<0.155928093.3974365185.86560>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9108.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:48:35.885 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9108.1>,connection_down}
2022-06-27 21:48:37.062 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:48:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:48:37.062 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:48:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:48:37.064 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6335,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:48:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:48:37.508 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:48:45.885 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:48:45.953 1 [info] <0.9115.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:48:45.954 1 [info] <0.9115.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.9114.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 21:48:46.015 1 [error] <0.9114.1>@http2_client:handle_settings:822
gen_server <0.9114.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:48:46.017 1 [error] <0.9114.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9114.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:48:46.018 1 [error] <0.9115.1>@Undefined:Undefined:Undefined
gen_server <0.9115.1> terminated with reason: connection_down
2022-06-27 21:48:46.018 1 [error] <0.9115.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9115.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:48:46.018 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9115.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:48:46.018 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:48:46.019 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:48:46.019 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:48:46.020 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9114.1>,{function_clause,
[ {http2_client,handle_settings,
[ [],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},]}},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6542>,socket_mon =>
#Ref<0.155928093.3974365185.86658>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9115.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}}
2022-06-27 21:48:46.021 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9115.1>,connection_down} 2022-06-27
21:48:47.674 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:48:56.022 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:48:56.284 1 [info] <0.9118.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:48:56.287 1 [info] <0.9118.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.9117.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:48:56.539 1 [error] <0.9117.1>@http2_client:handle_settings:822
gen_server <0.9117.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:48:56.541 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9118.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:48:56.541 1 [error] <0.9117.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9117.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:48:56.541 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:48:56.542 1 [error] <0.9118.1>@Undefined:Undefined:Undefined
gen_server <0.9118.1> terminated with reason: connection_down
2022-06-27 21:48:56.542 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:48:56.542 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```



```
2022-06-27 21:48:56.542 1 [error] <0.9118.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9118.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:48:56.544 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9117.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6543>,socket_mon =>
#Ref<0.155928093.3974365185.86724>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9118.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:48:56.544 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9118.1>,connection_down}
2022-06-27 21:48:57.827 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:49:06.545 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:49:06.770 1 [info] <0.9122.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 21:49:06.771 1 [info] <0.9122.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.9121.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:49:06.985 1 [error] <0.9121.1>@http2_client:handle_settings:822
gen_server <0.9121.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:49:06.986 1 [error] <0.9121.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9121.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:49:06.988 1 [error] <0.9122.1>@Undefined:Undefined:Undefined
gen_server <0.9122.1> terminated with reason: connection_down
2022-06-27 21:49:06.988 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9122.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:49:06.988 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:49:06.988 1 [error] <0.9122.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.9122.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 21:49:06.988 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 21:49:06.988 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 21:49:06.990 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.9121.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{53,  
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}]},host => "13.215.29.4",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6544>,socket\_mon =>  
#Ref<0.155928093.3974365185.86793>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.9122.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}  
2022-06-27 21:49:06.990 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.9122.1>,connection\_down}  
2022-06-27 21:49:07.065 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>

```
<<"2022-06-27 21:49:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:49:07.065 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:49:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:49:07.066 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6339,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:49:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:49:07.964 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:49:16.991 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:49:17.135 1 [info] <0.9129.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:49:17.136 1 [info] <0.9129.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.9128.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:49:17.278 1 [error] <0.9128.1>@http2_client:handle_settings:822
gen_server <0.9128.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:49:17.279 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9129.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 21:49:17.280 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:49:17.281 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:49:17.281 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:49:17.282 1 [error] <0.9128.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9128.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:49:17.282 1 [error] <0.9129.1>@Undefined:Undefined:Undefined
gen_server <0.9129.1> terminated with reason: connection_down
2022-06-27 21:49:17.283 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9128.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

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16384},server_window => 65528,socket => #Port<0.6545>,socket_mon =>
#Ref<0.155928093.3974365185.86905>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9129.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:49:17.283 1 [error] <0.9129.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9129.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:49:17.283 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9129.1>,connection_down}
2022-06-27 21:49:18.114 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:49:27.284 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:49:27.606 1 [info] <0.9139.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:49:27.608 1 [info] <0.9139.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.9138.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:49:27.922 1 [error] <0.9138.1>@http2_client:handle_settings:822
gen_server <0.9138.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:49:27.924 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

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{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9139.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:49:27.924 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:49:27.925 1 [error] <0.9138.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9138.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:49:27.926 1 [error] <0.9139.1>@Undefined:Undefined:Undefined
gen_server <0.9139.1> terminated with reason: connection_down
2022-06-27 21:49:27.926 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:49:27.926 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:49:27.928 1 [error] <0.9139.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9139.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:49:27.930 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9138.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {56,
{<<":authority">>,<<"13.237.155.172">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6546>,socket_mon =>
#Ref<0.155928093.3974365185.86964>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9139.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:49:27.931 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9139.1>,connection_down}
2022-06-27 21:49:28.251 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:49:37.071 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:49:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:49:37.072 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:49:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:49:37.073 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6343,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:49:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:49:37.929 1 [info]
```



```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:49:37.995 1 [info] <0.9146.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:49:37.998 1 [info] <0.9146.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.9145.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:49:38.052 1 [error] <0.9145.1>@http2_client:handle_settings:822
gen_server <0.9145.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:49:38.054 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9146.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:49:38.054 1 [error] <0.9145.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9145.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:49:38.054 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

```
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:49:38.055 1 [error] <0.9146.1>@Undefined:Undefined:Undefined
gen_server <0.9146.1> terminated with reason: connection_down
2022-06-27 21:49:38.055 1 [error] <0.9146.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9146.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:49:38.055 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:49:38.055 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:49:38.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9145.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6547>,socket_mon =>
#Ref<0.155928093.3974365185.87030>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9146.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:49:38.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.9146.1>,connection_down}
2022-06-27 21:49:38.387 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:49:39.933 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.9148.1>, Ref:
#Ref<0.155928093.3973578754.171401>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 21:49:48.058 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:49:48.375 1 [info] <0.9169.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:49:48.378 1 [info] <0.9169.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.9168.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:49:48.544 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:49:48.683 1 [error] <0.9168.1>@http2_client:handle_settings:822
gen_server <0.9168.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:49:48.687 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9169.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:49:48.687 1 [error] <0.9168.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9168.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:49:48.688 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:49:48.688 1 [error] <0.9169.1>@Undefined:Undefined:Undefined
gen_server <0.9169.1> terminated with reason: connection_down
2022-06-27 21:49:48.689 1 [error] <0.9169.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9169.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:49:48.689 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:49:48.689 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:49:48.694 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9168.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6548>,socket_mon =>
#Ref<0.155928093.3974365185.87175>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9169.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:49:48.694 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9169.1>,connection_down}
2022-06-27 21:49:50.989 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:49:58.682 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:49:58.692 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:49:59.771 1 [info] <0.9172.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:49:59.774 1 [info] <0.9172.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.9171.1>,scheme => <<"http">>},encoder
=> gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:49:59.835 1 [error] <0.9171.1>@http2_client:handle_settings:822
gen_server <0.9171.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:49:59.837 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9172.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:49:59.837 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:49:59.838 1 [error] <0.9171.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9171.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:49:59.839 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:49:59.839 1 [error] <0.9172.1>@Undefined:Undefined:Undefined
gen_server <0.9172.1> terminated with reason: connection_down
2022-06-27 21:49:59.839 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:49:59.840 1 [error] <0.9172.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9172.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:49:59.843 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9171.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
```

```
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6549>,socket_mon =>
#Ref<0.155928093.3974365185.87252>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9172.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 21:49:59.844 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9172.1>,connection_down}
2022-06-27 21:50:07.066 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:50:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:50:07.067 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:50:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:50:07.068 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6347,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:50:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:50:08.821 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:50:09.841 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 21:50:10.101 1 [info] <0.9176.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:50:10.103 1 [info] <0.9176.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.9175.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:50:10.358 1 [error] <0.9175.1>@http2_client:handle_settings:822
gen_server <0.9175.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:50:10.362 1 [error] <0.9175.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9175.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:50:10.362 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9176.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:50:10.363 1 [error] <0.9176.1>@Undefined:Undefined:Undefined
gen_server <0.9176.1> terminated with reason: connection_down
2022-06-27 21:50:10.363 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```



```
<<"stream create failed">>}}
2022-06-27 21:50:10.363 1 [error] <0.9176.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9176.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:50:10.366 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:50:10.367 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:50:10.370 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9175.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6550>,socket_mon =>
#Ref<0.155928093.3974365185.87314>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9176.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 21:50:10.371 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9176.1>,connection_down}
2022-06-27 21:50:17.509 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
```

```
#{"rxpk" => [{"chan" => 1,"codr" => "4/5","data" => "AE4AAPB+1bNwtDIAACBX+YyCMQ7ao10=","datr" => "SF7BW125","foff" => 7397,"freq" => 868.3,"jver" => 1,"lsnr" => -8.8,"mid" => 8,"modu" => "LORA","rfch" => 1,"rssi" => -109,"rssid" => -117,"size" => 23,"stat" => 1,"tmst" => 888620414}]} from 12291671073248440251 on 35152
2022-06-27 21:50:18.977 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:50:20.370 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:50:20.439 1 [info] <0.9184.1>@grpc_client_stream_custom:init: {131,9} init stream for RPC validators and type unary
2022-06-27 21:50:20.441 1 [info] <0.9184.1>@grpc_client_stream_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2_client,host => "3.122.38.248"},http_connection => <0.9183.1>,scheme => "http"},encoder => gateway_miner_client_pb,headers_sent => false,input => gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway_resp_v1_pb,output_stream => false,package => [],queue => {[[],[]]},response_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod: miner_poc_grpc_client_handler
2022-06-27 21:50:20.498 1 [error] <0.9183.1>@http2_client:handle_settings:822 gen_server <0.9183.1> terminated with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:50:20.499 1 [error] <0.9183.1>@http2_client:handle_settings:822 CRASH REPORT Process <0.9183.1> with 0 neighbours crashed with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:50:20.499 1 [error] <0.9184.1>@Undefined:Undefined:Undefined gen_server <0.9184.1> terminated with reason: connection_down
2022-06-27 21:50:20.499 1 [warning] <0.1817.0>@grpc_client_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection_down, {gen_server,call,[<0.9184.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3, [{file,"gen_server.erl"},{line,247}]}, {grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 21:50:20.500 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:50:20.500 1 [error] <0.9184.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9184.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:50:20.501 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:50:20.501 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:50:20.502 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9183.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]}],host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6551>,socket_mon =>
#Ref<0.155928093.3974365185.87449>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9184.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>]],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 21:50:20.503 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9184.1>,connection_down}
2022-06-27 21:50:29.124 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:50:30.504 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:50:30.714 1 [info] <0.9187.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:50:30.716 1 [info] <0.9187.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.9186.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:50:30.919 1 [error] <0.9186.1>@http2_client:handle_settings:822
gen_server <0.9186.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:50:30.921 1 [error] <0.9186.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9186.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:50:30.921 1 [error] <0.9187.1>@Undefined:Undefined:Undefined
gen_server <0.9187.1> terminated with reason: connection_down
```

```
2022-06-27 21:50:30.922 1 [error] <0.9187.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9187.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:50:30.922 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9187.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:50:30.922 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:50:30.923 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:50:30.924 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:50:30.926 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9186.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"44.229.159.157">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6552>,socket_mon =>
#Ref<0.155928093.3974365185.87513>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9187.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:50:30.926 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9187.1>,connection_down}
2022-06-27 21:50:37.067 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:50:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:50:37.068 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:50:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:50:37.069 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6351,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:50:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:50:39.277 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:50:40.925 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:50:40.993 1 [info] <0.9192.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:50:40.994 1 [info] <0.9192.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.9191.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:50:41.056 1 [error] <0.9191.1>@http2_client:handle_settings:822
gen_server <0.9191.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:50:41.058 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9192.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:50:41.058 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:50:41.059 1 [error] <0.9191.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9191.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:50:41.059 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:50:41.060 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 21:50:41.060 1 [error] <0.9192.1>@Undefined:Undefined:Undefined
gen_server <0.9192.1> terminated with reason: connection_down
2022-06-27 21:50:41.061 1 [error] <0.9192.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9192.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:50:41.063 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9191.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6553>,socket_mon =>
#Ref<0.155928093.3974365185.87586>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9192.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 21:50:41.064 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9192.1>,connection_down}
2022-06-27 21:50:49.414 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:50:51.063 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
```



```
{gateway_validators_req_v1_pb,1}
2022-06-27 21:50:51.381 1 [info] <0.9213.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:50:51.382 1 [info] <0.9213.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.9212.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:50:51.694 1 [error] <0.9212.1>@http2_client:handle_settings:822
gen_server <0.9212.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:50:51.698 1 [error] <0.9212.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9212.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:50:51.698 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9213.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:50:51.699 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 21:50:51.699 1 [error] <0.9213.1>@Undefined:Undefined:Undefined  
gen\_server <0.9213.1> terminated with reason: connection\_down  
2022-06-27 21:50:51.700 1 [error] <0.9213.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.9213.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 21:50:51.700 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 21:50:51.700 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 21:50:51.704 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.9212.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.24.161.210">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}]}},host => "3.24.161.210",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6554>,socket\_mon =>  
#Ref<0.155928093.3974365185.87860>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.9213.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}

2022-06-27 21:50:51.705 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.9213.1>,connection\_down}  
2022-06-27 21:50:59.554 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:51:01.703 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:51:01.927 1 [info] <0.9216.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:51:01.929 1 [info] <0.9216.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.9215.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:51:02.144 1 [error] <0.9215.1>@http2_client:handle_settings:822
gen_server <0.9215.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:51:02.147 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9216.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:51:02.147 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:51:02.149 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 21:51:02.150 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 21:51:02.150 1 [error] <0.9215.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.9215.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 21:51:02.151 1 [error] <0.9216.1>@Undefined:Undefined:Undefined gen\_server <0.9216.1> terminated with reason: connection\_down  
2022-06-27 21:51:02.152 1 [error] <0.9216.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.9216.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 21:51:02.154 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.9215.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {53, {<<":authority">>,<<"13.215.29.4">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "13.215.29.4",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6555>,socket\_mon => #Ref<0.155928093.3974365185.87952>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.9216.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}],

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{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}}
2022-06-27 21:51:02.155 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9216.1>,connection_down}
2022-06-27 21:51:07.068 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:51:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:51:07.069 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:51:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:51:07.071 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6355,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:51:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:51:09.701 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:51:12.153 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:51:12.227 1 [info] <0.9225.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:51:12.228 1 [info] <0.9225.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.9224.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:51:12.299 1 [error] <0.9224.1>@http2_client:handle_settings:822
gen_server <0.9224.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:51:12.301 1 [error] <0.9224.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9224.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:51:12.302 1 [error] <0.9225.1>@Undefined:Undefined:Undefined
gen_server <0.9225.1> terminated with reason: connection_down
2022-06-27 21:51:12.303 1 [error] <0.9225.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9225.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:51:12.305 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9225.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:51:12.305 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:51:12.306 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:51:12.306 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:51:12.311 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9224.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6556>,socket_mon =>
#Ref<0.155928093.3974365185.88161>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9225.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:51:12.312 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9225.1>,connection_down}
2022-06-27 21:51:19.841 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:51:22.309 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:51:22.459 1 [info] <0.9234.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:51:22.462 1 [info] <0.9234.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.9233.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 21:51:22.602 1 [error] <0.9233.1>@http2_client:handle_settings:822
gen_server <0.9233.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:51:22.604 1 [error] <0.9233.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9233.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:51:22.605 1 [error] <0.9234.1>@Undefined:Undefined:Undefined
gen_server <0.9234.1> terminated with reason: connection_down
2022-06-27 21:51:22.606 1 [error] <0.9234.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9234.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:51:22.607 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9234.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:51:22.607 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:51:22.607 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:51:22.608 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:51:22.609 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```



```
in setup state: Type: info, Msg: {'EXIT',<0.9233.1>,{function_clause,
[{{http2_client,handle_settings,
[[,0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6557>,socket_mon =>
#Ref<0.155928093.3974365185.88421>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9234.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:51:22.609 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9234.1>,connection_down} 2022-06-27
21:51:29.985 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:51:32.611 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:51:32.831 1 [info] <0.9237.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:51:32.832 1 [info] <0.9237.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.9236.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:51:33.047 1 [error] <0.9236.1>@http2_client:handle_settings:822
gen_server <0.9236.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:51:33.049 1 [error] <0.9236.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9236.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:51:33.049 1 [error] <0.9237.1>@Undefined:Undefined:Undefined
gen_server <0.9237.1> terminated with reason: connection_down
2022-06-27 21:51:33.050 1 [error] <0.9237.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9237.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:51:33.050 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9237.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:51:33.051 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:51:33.051 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:51:33.051 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:51:33.053 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9236.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.215.75.202">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6558>,socket_mon =>
#Ref<0.155928093.3974365185.88617>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9237.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 21:51:33.053 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9237.1>,connection_down}
2022-06-27 21:51:37.070 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:51:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:51:37.071 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:51:37 GMT">>,<<"txnb">> => 0}
```

2022-06-27 21:51:37.073 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6359,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:51:37 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 21:51:40.124 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:51:43.054 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.49.199.40":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 21:51:50.268 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:52:00.431 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:52:07.073 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:52:07 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 21:52:07.074 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:52:07 GMT">>,<<"txnb">> => 0}

2022-06-27 21:52:07.075 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6363,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:52:07 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}

2022-06-27 21:52:10.574 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:52:13.057 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:52:13.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:52:13.058 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9239.1>,timeout}
2022-06-27 21:52:13.058 1 [error] <0.9239.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9239.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 21:52:20.717 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:52:21.712 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1639.0>
2022-06-27 21:52:23.060 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:52:23.134 1 [info] <0.9269.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:52:23.136 1 [info] <0.9269.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.9268.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:52:23.204 1 [error] <0.9268.1>@http2_client:handle_settings:822
gen_server <0.9268.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:52:23.206 1 [error] <0.9268.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9268.1> with 0 neighbours crashed with reason: no
```

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function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:52:23.207 1 [error] <0.9269.1>@Undefined:Undefined:Undefined
gen_server <0.9269.1> terminated with reason: connection_down
2022-06-27 21:52:23.207 1 [error] <0.9269.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9269.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:52:23.208 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9269.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:52:23.208 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:52:23.209 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:52:23.209 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:52:23.210 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9268.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>, <<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>, <<"application/grpc+proto">>}}, {52,
{<<":authority">>, <<"52.30.1.39">>}}, {63, {<<":path">>, <<"/helium.gateway/
validators">>}}}, host => "52.30.1.39", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.6560>, socket_mon =>
#Ref<0.155928093.3973578754.171724>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.9269.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}], timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file, "http2_client.erl"}, {line, 822}],
{http2_client, handle_packet, 2, [{file, "http2_client.erl"}, {line, 648}]},
{gen_server, try_dispatch, 4, [{file, "gen_server.erl"}, {line, 695}]},
{gen_server, handle_msg, 6, [{file, "gen_server.erl"}, {line, 771}]},
{proc_lib, init_p_do_apply, 3, [{file, "proc_lib.erl"}, {line, 226}]}}}]
2022-06-27 21:52:23.210 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT', <0.9269.1>, connection_down}
2022-06-27 21:52:30.854 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:52:33.212 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb, 1}
2022-06-27 21:52:33.287 1 [info] <0.9276.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:52:33.288 1 [info] <0.9276.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>, compression =>
none, connection => #{client => http2_client, host =>
<<"52.30.1.39">>, http_connection => <0.9275.1>, scheme =>
<<"http">>}, encoder => gateway_miner_client_pb, headers_sent => false, input =>
gateway_validators_req_v1_pb, input_stream => false, metadata => #{}}, name =>
validators, opts => [], output => gateway_resp_v1_pb, output_stream =>
false, package => [], queue => {[], []}, response_pending => false, rpc =>
validators, service => 'helium.gateway', state => idle, stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:52:33.354 1 [error] <0.9275.1>@http2_client:handle_settings:822
gen_server <0.9275.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:52:33.355 1 [error] <0.9275.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9275.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:52:33.356 1 [error] <0.9276.1>@Undefined:Undefined:Undefined
gen_server <0.9276.1> terminated with reason: connection_down
2022-06-27 21:52:33.357 1 [error] <0.9276.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9276.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:52:33.357 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9276.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:52:33.357 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:52:33.358 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:52:33.358 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:52:33.359 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9275.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```



```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6561>,socket_mon =>
#Ref<0.155928093.3974365185.90267>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9276.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:52:33.360 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9276.1>,connection_down}
2022-06-27 21:52:37.073 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:52:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:52:37.074 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:52:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:52:37.075 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6367,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:52:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
```

```
2022-06-27 21:52:41.015 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:52:43.360 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:52:51.161 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:53:01.291 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:53:07.072 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:53:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:53:07.073 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:53:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:53:07.074 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6371,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:53:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:53:11.427 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:53:13.365 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}]
```

2022-06-27 21:53:13.366 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:53:13.368 1 [error] <0.9278.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.9278.1> with 0 neighbours exited with reason: timeout in gen\_server:init\_it/6 line 407

2022-06-27 21:53:13.368 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.9278.1>,timeout}

2022-06-27 21:53:21.571 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 21:53:23.369 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "44.229.159.157":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 21:53:23.586 1 [info] <0.9304.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 21:53:23.588 1 [info] <0.9304.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"44.229.159.157">>,http\_connection => <0.9303.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 21:53:23.799 1 [error] <0.9303.1>@http2\_client:handle\_settings:822 gen\_server <0.9303.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:53:23.801 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.9304.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0,

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[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:53:23.801 1 [error] <0.9303.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9303.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:53:23.801 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:53:23.802 1 [error] <0.9304.1>@Undefined:Undefined:Undefined
gen_server <0.9304.1> terminated with reason: connection_down
2022-06-27 21:53:23.802 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:53:23.802 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:53:23.802 1 [error] <0.9304.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9304.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:53:23.804 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9303.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6563>,socket_mon =>
```

```
#Ref<0.155928093.3974365185.91633>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9304.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 21:53:23.804 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9304.1>,connection_down}
2022-06-27 21:53:31.717 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:53:33.805 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:53:34.026 1 [info] <0.9315.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:53:34.027 1 [info] <0.9315.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.9314.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:53:34.241 1 [error] <0.9314.1>@http2_client:handle_settings:822
gen_server <0.9314.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:53:34.242 1 [error] <0.9314.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9314.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 21:53:34.243 1 [error] <0.9315.1>@Undefined:Undefined:Undefined
gen_server <0.9315.1> terminated with reason: connection_down
2022-06-27 21:53:34.243 1 [error] <0.9315.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9315.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:53:34.244 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9315.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:53:34.244 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:53:34.244 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:53:34.244 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:53:34.246 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9314.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6564>,socket_mon =>
#Ref<0.155928093.3974365185.91993>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9315.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:53:34.247 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9315.1>,connection_down}
2022-06-27 21:53:37.081 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:53:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:53:37.082 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:53:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:53:37.083 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6375,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:53:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:53:41.868 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:53:44.246 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:53:44.509 1 [info] <0.9318.1>@grpc_client_stream_custom:init:
```

```
{131,9} init stream for RPC validators and type unary
2022-06-27 21:53:44.510 1 [info] <0.9318.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.9317.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:53:44.768 1 [error] <0.9317.1>@http2_client:handle_settings:822
gen_server <0.9317.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:53:44.769 1 [error] <0.9317.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9317.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:53:44.769 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9318.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:53:44.769 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:53:44.769 1 [error] <0.9318.1>@Undefined:Undefined:Undefined
gen_server <0.9318.1> terminated with reason: connection_down
```



2022-06-27 21:53:44.770 1 [error] <0.9318.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.9318.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:53:44.770 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 21:53:44.770 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 21:53:44.772 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.9317.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}},host => "18.230.8.198",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6565>,socket\_mon =>  
#Ref<0.155928093.3973578754.171895>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.9318.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}},{file,"http2\_client.erl"},{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}

2022-06-27 21:53:44.772 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.9318.1>,connection\_down}

2022-06-27 21:53:52.011 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

```
2022-06-27 21:53:54.773 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:53:54.996 1 [info] <0.9321.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:53:54.997 1 [info] <0.9321.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.9320.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:53:55.217 1 [error] <0.9320.1>@http2_client:handle_settings:822
gen_server <0.9320.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:53:55.221 1 [error] <0.9320.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9320.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:53:55.221 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9321.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:53:55.221 1 [error] <0.9321.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.9321.1> terminated with reason: connection_down
2022-06-27 21:53:55.222 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:53:55.222 1 [error] <0.9321.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9321.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:53:55.223 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:53:55.224 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:53:55.227 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9320.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6566>,socket_mon =>
#Ref<0.155928093.3973578754.171919>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9321.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 21:53:55.228 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.9321.1>,connection\_down}  
2022-06-27 21:54:02.161 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:54:05.227 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.38.70.101":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:54:07.072 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:54:07 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 21:54:07.073 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:54:07 GMT">>,<<"txnb">> => 0}  
2022-06-27 21:54:07.074 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6379,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:54:07 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 21:54:12.304 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:54:22.457 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:54:32.607 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 21:54:35.234 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}],

```
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:54:35.234 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:54:35.237 1 [error] <0.9339.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9339.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 21:54:35.238 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9339.1>,timeout}
2022-06-27 21:54:37.077 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:54:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:54:37.078 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:54:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:54:37.080 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6383,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:54:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:54:42.754 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:54:45.237 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:54:45.313 1 [info] <0.9356.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:54:45.316 1 [info] <0.9356.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.9355.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:54:45.383 1 [error] <0.9355.1>@http2_client:handle_settings:822
gen_server <0.9355.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:54:45.385 1 [error] <0.9355.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9355.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:54:45.385 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9356.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:54:45.385 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:54:45.385 1 [error] <0.9356.1>@Undefined:Undefined:Undefined
gen_server <0.9356.1> terminated with reason: connection_down
2022-06-27 21:54:45.386 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:54:45.386 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:54:45.386 1 [error] <0.9356.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9356.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:54:45.388 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9355.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6568>,socket_mon =>
#Ref<0.155928093.3974365185.93952>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9356.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:54:45.388 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9356.1>,connection_down} 2022-06-27
21:54:52.891 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:54:55.389 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:54:55.456 1 [info] <0.9359.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:54:55.458 1 [info] <0.9359.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"3.122.38.248">>,http_connection => <0.9358.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:54:55.515 1 [error] <0.9358.1>@http2_client:handle_settings:822
gen_server <0.9358.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:54:55.516 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9359.1>,{rcv,10000},infinity]}}, Stack: [{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:54:55.516 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:54:55.517 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:54:55.517 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:54:55.517 1 [error] <0.9358.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9358.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```



2022-06-27 21:54:55.518 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9358.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6569>,socket_mon =>
#Ref<0.155928093.3973578754.171995>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9359.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 21:54:55.518 1 [error] <0.9359.1>@Undefined:Undefined:Undefined  
gen\_server <0.9359.1> terminated with reason: connection\_down

2022-06-27 21:54:55.518 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9359.1>,connection_down}
```

2022-06-27 21:54:55.519 1 [error] <0.9359.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.9359.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:55:03.035 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 21:55:05.520 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
```

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 21:55:07.076 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:55:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:55:07.076 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:55:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:55:07.077 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6387,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:55:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:55:13.187 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:55:23.344 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:55:33.494 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:55:35.524 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}}]
2022-06-27 21:55:35.525 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:55:35.526 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9364.1>,timeout}
2022-06-27 21:55:35.527 1 [error] <0.9364.1>@Undefined:Undefined:Undefined
```

```
CRASH REPORT Process <0.9364.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 21:55:37.081 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:55:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:55:37.082 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:55:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:55:37.083 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6391,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:55:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:55:43.638 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:55:45.528 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:55:45.790 1 [info] <0.9396.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:55:45.791 1 [info] <0.9396.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.9395.1>,<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:55:46.046 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9396.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 21:55:46.046 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:55:46.047 1 [error] <0.9395.1>@http2_client:handle_settings:822
gen_server <0.9395.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:55:46.047 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:55:46.047 1 [error] <0.9395.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9395.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:55:46.048 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:55:46.048 1 [error] <0.9396.1>@Undefined:Undefined:Undefined
gen_server <0.9396.1> terminated with reason: connection_down
2022-06-27 21:55:46.048 1 [error] <0.9396.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9396.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:55:46.049 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9395.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6571>,socket_mon =>
#Ref<0.155928093.3973578754.172020>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9396.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:55:46.049 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9396.1>,connection_down}
2022-06-27 21:55:49.948 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112PgEuGhvP6pPKDPhaG7jk2dSvH3T6P1jGbvGnyXmduWhfYbyTP" informed us of
our observed address "/ip4/80.77.186.186/tcp/62510"
2022-06-27 21:55:53.782 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:55:56.050 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:55:56.265 1 [info] <0.9415.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:55:56.268 1 [info] <0.9415.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.9414.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:55:56.473 1 [error] <0.9414.1>@http2_client:handle_settings:822
gen_server <0.9414.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:55:56.477 1 [error] <0.9414.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9414.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:55:56.480 1 [error] <0.9415.1>@Undefined:Undefined:Undefined
gen_server <0.9415.1> terminated with reason: connection_down
2022-06-27 21:55:56.480 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9415.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:55:56.481 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:55:56.481 1 [error] <0.9415.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9415.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:55:56.482 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:55:56.483 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 21:55:56.485 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9414.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6577>,socket_mon =>
#Ref<0.155928093.3973578754.172035>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9415.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:55:56.486 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9415.1>,connection_down}
2022-06-27 21:56:03.924 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:56:06.486 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:56:06.747 1 [info] <0.9418.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:56:06.748 1 [info] <0.9418.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.9417.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:56:07.004 1 [error] <0.9417.1>@http2_client:handle_settings:822
gen_server <0.9417.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:56:07.005 1 [error] <0.9417.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9417.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:56:07.005 1 [error] <0.9418.1>@Undefined:Undefined:Undefined
gen_server <0.9418.1> terminated with reason: connection_down
2022-06-27 21:56:07.006 1 [error] <0.9418.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9418.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:56:07.006 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9418.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:56:07.006 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```



2022-06-27 21:56:07.007 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 21:56:07.007 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 21:56:07.008 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.9417.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {56, {<<":authority">>,<<"54.207.131.103">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "54.207.131.103",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6578>,socket\_mon => #Ref<0.155928093.3974365185.95648>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.9418.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 21:56:07.009 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.9418.1>,connection\_down}

2022-06-27 21:56:07.083 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 21:56:07 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

```
2022-06-27 21:56:07.084 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:56:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:56:07.085 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6395,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:56:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:56:14.075 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:56:17.010 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:56:17.159 1 [info] <0.9450.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:56:17.162 1 [info] <0.9450.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.9449.1>,<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:56:17.301 1 [error] <0.9449.1>@http2_client:handle_settings:822
gen_server <0.9449.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:56:17.302 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9450.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 21:56:17.302 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:56:17.304 1 [error] <0.9449.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9449.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:56:17.304 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:56:17.304 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:56:17.304 1 [error] <0.9450.1>@Undefined:Undefined:Undefined
gen_server <0.9450.1> terminated with reason: connection_down
2022-06-27 21:56:17.305 1 [error] <0.9450.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9450.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:56:17.307 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9449.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6584>,socket_mon =>
#Ref<0.155928093.3974365185.96010>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9450.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:56:17.307 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9450.1>,connection_down}
2022-06-27 21:56:18.896 1 [notice]
<0.9443.1>@libp2p_stream_identify:handle_info:{65,5} Identify timed out
2022-06-27 21:56:18.898 1 [warning]
<0.1630.0>@libp2p_swarm_server:handle_info:{66,5} ignoring session after failed
identify "/ip4/212.252.21.4/tcp/44158": timeout
2022-06-27 21:56:18.898 1 [notice]
<0.1631.0>@libp2p_transport_tcp:handle_info:{475,5} session identification failed
for "/ip4/212.252.21.4/tcp/44158": timeout
2022-06-27 21:56:24.222 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:56:27.307 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:56:27.529 1 [info] <0.9469.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:56:27.531 1 [info] <0.9469.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.9468.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:56:27.746 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9469.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:56:27.747 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:56:27.747 1 [error] <0.9468.1>@http2_client:handle_settings:822
gen_server <0.9468.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:56:27.748 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:56:27.748 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:56:27.749 1 [error] <0.9468.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9468.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:56:27.749 1 [error] <0.9469.1>@Undefined:Undefined:Undefined
gen_server <0.9469.1> terminated with reason: connection_down
2022-06-27 21:56:27.750 1 [error] <0.9469.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9469.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:56:27.752 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9468.1>,{function_clause,
```

```
{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6586>,socket_mon =>
#Ref<0.155928093.3974365185.96271>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9469.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:56:27.753 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9469.1>,connection_down} 2022-06-27
21:56:34.364 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:56:37.083 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:56:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:56:37.084 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:56:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:56:37.085 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=6399,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:56:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:56:37.751 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:56:38.066 1 [info] <0.9473.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:56:38.067 1 [info] <0.9473.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.9472.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:56:38.375 1 [error] <0.9472.1>@http2_client:handle_settings:822
gen_server <0.9472.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:56:38.376 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9473.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:56:38.376 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 21:56:38.377 1 [error] <0.9472.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9472.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:56:38.377 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:56:38.377 1 [error] <0.9473.1>@Undefined:Undefined:Undefined
gen_server <0.9473.1> terminated with reason: connection_down
2022-06-27 21:56:38.377 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:56:38.377 1 [error] <0.9473.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9473.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:56:38.379 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9472.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6587>,socket_mon =>
#Ref<0.155928093.3974365185.96380>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9473.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```



```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:56:38.379 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9473.1>,connection_down}
2022-06-27 21:56:44.507 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:56:48.380 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:56:48.461 1 [notice]
<0.9492.1>@libp2p_stream_relay:handle_info:{146,5} client init bridge Server to
Client {libp2p_relay_bridge_rs_pb,"/p2p/
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv","/
ip4/43.157.120.48/tcp/44158"}
2022-06-27 21:56:48.525 1 [info] <0.9494.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:56:48.527 1 [info] <0.9494.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.9491.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:56:48.662 1 [error] <0.9491.1>@http2_client:handle_settings:822
gen_server <0.9491.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:56:48.663 1 [error] <0.9491.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9491.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:56:48.663 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.9494.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:56:48.664 1 [error] <0.9494.1>@Undefined:Undefined:Undefined
gen_server <0.9494.1> terminated with reason: connection_down
2022-06-27 21:56:48.664 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:56:48.664 1 [error] <0.9494.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9494.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:56:48.665 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:56:48.665 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:56:48.667 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9491.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6589>,socket_mon =>
#Ref<0.155928093.3973316611.229220>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9494.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 21:56:48.668 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9494.1>,connection_down} 2022-06-27
21:56:48.897 1 [notice] <0.9431.1>@libp2p_yamux_session:handle_info:{189,5}
Session liveness failure 2022-06-27 21:56:54.641 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:56:58.668 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:56:58.819 1 [info] <0.9527.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:56:58.820 1 [info] <0.9527.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.9526.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:56:58.963 1 [error] <0.9526.1>@http2_client:handle_settings:822
gen_server <0.9526.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:56:58.965 1 [error] <0.9526.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9526.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:56:58.967 1 [error] <0.9527.1>@Undefined:Undefined:Undefined
gen_server <0.9527.1> terminated with reason: connection_down
2022-06-27 21:56:58.967 1 [error] <0.9527.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9527.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:56:58.969 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9527.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:56:58.969 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:56:58.970 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:56:58.970 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:56:58.971 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9526.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {54,
{<<":authority">>,<<"3.13.130.184">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}}], host => "3.13.130.184", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.6595>, socket_mon =>
#Ref<0.155928093.3974365185.96719>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.9527.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file,"http2_client.erl"}, {line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"}, {line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"}, {line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"}, {line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"}, {line,226}]}}]}
2022-06-27 21:56:58.972 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9527.1>,connection_down}
2022-06-27 21:56:59.788 1 [notice]
<0.9522.1>@libp2p_stream_identify:handle_info:{65,5} Identify timed out
2022-06-27 21:56:59.789 1 [warning]
<0.1630.0>@libp2p_swarm_server:handle_info:{66,5} ignoring session after failed
identify "/ip4/212.252.21.4/tcp/44158": timeout
2022-06-27 21:56:59.790 1 [notice]
<0.1631.0>@libp2p_transport_tcp:handle_info:{475,5} session identification failed
for "/ip4/212.252.21.4/tcp/44158": timeout
2022-06-27 21:57:04.784 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:57:07.079 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:57:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:57:07.080 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:57:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:57:07.081 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
```

```
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6403,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:57:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:57:08.973 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:57:09.235 1 [info] <0.9530.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:57:09.237 1 [info] <0.9530.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.9529.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:57:09.488 1 [error] <0.9529.1>@http2_client:handle_settings:822
gen_server <0.9529.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:57:09.489 1 [error] <0.9529.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9529.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:57:09.490 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9530.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:57:09.490 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:57:09.491 1 [error] <0.9530.1>@Undefined:Undefined:Undefined
gen_server <0.9530.1> terminated with reason: connection_down
2022-06-27 21:57:09.491 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:57:09.491 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:57:09.491 1 [error] <0.9530.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9530.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:57:09.492 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9529.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6596>,socket_mon =>
#Ref<0.155928093.3974365185.96957>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9530.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:57:09.493 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9530.1>,connection_down}
2022-06-27 21:57:14.934 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:57:16.805 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.9535.1>, Ref:
#Ref<0.155928093.3974365185.97173>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 21:57:19.494 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:57:21.714 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1640.0>
2022-06-27 21:57:25.084 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:57:27.868 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:57:29.789 1 [notice]
<0.9510.1>@libp2p_yamux_session:handle_info:{189,5} Session liveness failure
2022-06-27 21:57:35.234 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:57:37.082 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:57:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:57:37.082 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:57:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:57:37.084 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```



```
ed=6407,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:57:37 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 21:57:45.368 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:57:49.500 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 21:57:49.501 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:57:49.502 1 [error] <0.9543.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9543.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 21:57:49.502 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9543.1>,timeout}
2022-06-27 21:57:55.511 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:57:59.504 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:57:59.766 1 [info] <0.9576.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:57:59.767 1 [info] <0.9576.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.9575.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

miner\_poc\_grpc\_client\_handler

2022-06-27 21:58:00.019 1 [error] <0.9575.1>@http2\_client:handle\_settings:822  
gen\_server <0.9575.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:58:00.021 1 [error] <0.9575.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.9575.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 21:58:00.021 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.9576.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]}],

{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]}],

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}],

{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}],

{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}],

{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]}],

{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]}]}

2022-06-27 21:58:00.022 1 [error] <0.9576.1>@Undefined:Undefined:Undefined  
gen\_server <0.9576.1> terminated with reason: connection\_down

2022-06-27 21:58:00.022 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 21:58:00.022 1 [error] <0.9576.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.9576.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 21:58:00.023 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 21:58:00.023 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 21:58:00.025 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9575.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},]}},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6599>,socket_mon =>
#Ref<0.155928093.3974365185.98569>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9576.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 21:58:00.025 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9576.1>,connection_down} 2022-06-27
21:58:05.658 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 21:58:07.084 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:58:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:58:07.085 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:58:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:58:07.086 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
```

```
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6411,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:58:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:58:10.026 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:58:10.245 1 [info] <0.9583.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:58:10.247 1 [info] <0.9583.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.9582.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:58:10.453 1 [error] <0.9582.1>@http2_client:handle_settings:822
gen_server <0.9582.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:58:10.455 1 [error] <0.9582.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9582.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:58:10.455 1 [error] <0.9583.1>@Undefined:Undefined:Undefined
gen_server <0.9583.1> terminated with reason: connection_down
2022-06-27 21:58:10.456 1 [error] <0.9583.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9583.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:58:10.457 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9583.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 21:58:10.457 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:58:10.458 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:58:10.458 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:58:10.460 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9582.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6600>,socket_mon =>
#Ref<0.155928093.3974365185.98842>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9583.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:58:10.460 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9583.1>,connection_down}
2022-06-27 21:58:15.804 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:58:20.460 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:58:20.683 1 [info] <0.9588.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:58:20.684 1 [info] <0.9588.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.9587.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:58:20.897 1 [error] <0.9587.1>@http2_client:handle_settings:822
gen_server <0.9587.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:58:20.898 1 [error] <0.9587.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9587.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:58:20.900 1 [error] <0.9588.1>@Undefined:Undefined:Undefined
gen_server <0.9588.1> terminated with reason: connection_down
2022-06-27 21:58:20.901 1 [error] <0.9588.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9588.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 21:58:20.901 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9588.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
```

```
2022-06-27 21:58:20.901 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 21:58:20.902 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 21:58:20.902 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 21:58:20.904 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9587.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"13.215.29.4">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6601>,socket_mon =>
#Ref<0.155928093.3974365185.99128>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9588.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 21:58:20.905 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9588.1>,connection_down}
2022-06-27 21:58:22.867 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.9597.1>, Ref:
#Ref<0.155928093.3974365185.99307>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 21:58:25.941 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:58:30.905 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:58:30.971 1 [info] <0.9612.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:58:30.972 1 [info] <0.9612.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.9611.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:58:31.031 1 [error] <0.9611.1>@http2_client:handle_settings:822
gen_server <0.9611.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:58:31.032 1 [error] <0.9611.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9611.1> with 0 neighbours crashed with reason: no
```



```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:58:31.034 1 [error] <0.9612.1>@Undefined:Undefined:Undefined
gen_server <0.9612.1> terminated with reason: connection_down
2022-06-27 21:58:31.034 1 [error] <0.9612.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9612.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:58:31.034 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9612.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:58:31.035 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:58:31.035 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:58:31.035 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:58:31.037 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9611.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {54,
{<<":authority">>,<<"3.122.38.248">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}}], host => "3.122.38.248", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.6602>, socket_mon =>
#Ref<0.155928093.3974365185.99647>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.9612.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}], timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file,"http2_client.erl"}, {line,822}],
{http2_client,handle_packet,2, [{file,"http2_client.erl"}, {line,648}]},
{gen_server,try_dispatch,4, [{file,"gen_server.erl"}, {line,695}]},
{gen_server,handle_msg,6, [{file,"gen_server.erl"}, {line,771}]},
{proc_lib,init_p_do_apply,3, [{file,"proc_lib.erl"}, {line,226}]}}]
2022-06-27 21:58:31.037 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9612.1>,connection_down}
2022-06-27 21:58:34.187 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:58:36.081 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:58:37.087 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:58:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:58:37.088 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:58:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:58:37.089 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6415,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:58:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
```

```
2022-06-27 21:58:40.082 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.9616.1>, Ref:
#Ref<0.155928093.3974365185.99903>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 21:58:41.038 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:58:41.112 1 [info] <0.9619.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:58:41.113 1 [info] <0.9619.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,>,http_connection => <0.9618.1>,>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,>,rpc =>
validators,>,service => 'helium.gateway',state => idle,>,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:58:41.181 1 [error] <0.9618.1>@http2_client:handle_settings:822
gen_server <0.9618.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:58:41.182 1 [error] <0.9618.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9618.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:58:41.183 1 [error] <0.9619.1>@Undefined:Undefined:Undefined
gen_server <0.9619.1> terminated with reason: connection_down
2022-06-27 21:58:41.183 1 [error] <0.9619.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9619.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:58:41.183 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9619.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

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{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:58:41.184 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:58:41.184 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:58:41.184 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:58:41.186 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9618.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6603>,socket_mon =>
#Ref<0.155928093.3974365185.99974>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9619.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 21:58:41.186 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9619.1>,connection_down}
2022-06-27 21:58:46.221 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:58:51.187 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:58:51.332 1 [info] <0.9624.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:58:51.333 1 [info] <0.9624.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.9623.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:58:51.470 1 [error] <0.9623.1>@http2_client:handle_settings:822
gen_server <0.9623.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:58:51.472 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9624.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 21:58:51.472 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:58:51.473 1 [error] <0.9623.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9623.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:58:51.473 1 [error] <0.9624.1>@Undefined:Undefined:Undefined
gen_server <0.9624.1> terminated with reason: connection_down
2022-06-27 21:58:51.473 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:58:51.473 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:58:51.473 1 [error] <0.9624.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9624.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:58:51.475 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9623.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6604>,socket_mon =>
#Ref<0.155928093.3974365185.100240>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9624.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>]],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>]],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 21:58:51.475 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9624.1>,connection_down}
2022-06-27 21:58:51.677 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 21:58:56.361 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:58:57.887 1 [warning]
<0.1641.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
112S65xod1GDzGgJTVAoTQM785nnskYmt1xsN6rZJbUzn5pqTqMg": {exit,{normal,
{gen_server,call,[<0.9010.1>,open]}}}
2022-06-27 21:59:01.476 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:59:01.694 1 [info] <0.9630.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:59:01.696 1 [info] <0.9630.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.9629.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:59:01.902 1 [error] <0.9629.1>@http2_client:handle_settings:822
gen_server <0.9629.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:59:01.904 1 [error] <0.9629.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9629.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 21:59:01.906 1 [error] <0.9630.1>@Undefined:Undefined:Undefined
gen_server <0.9630.1> terminated with reason: connection_down
2022-06-27 21:59:01.907 1 [error] <0.9630.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9630.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:59:01.908 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9630.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:59:01.909 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:59:01.909 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:59:01.911 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:59:01.914 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9629.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
```



```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"35.82.239.134">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}}], host => "35.82.239.134", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.6605>, socket_mon =>
#Ref<0.155928093.3974365185.100517>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.9630.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file,"http2_client.erl"}, {line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"}, {line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"}, {line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"}, {line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"}, {line,226}]}}]}
2022-06-27 21:59:01.915 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9630.1>,connection_down}
2022-06-27 21:59:06.521 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:59:07.084 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:59:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:59:07.085 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:59:07 GMT">>,<<"txnb">> => 0}
2022-06-27 21:59:07.087 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6419,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:59:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:59:11.914 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

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unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:59:12.135 1 [info] <0.9638.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:59:12.136 1 [info] <0.9638.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.9637.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:59:12.351 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9638.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 21:59:12.352 1 [error] <0.9637.1>@http2_client:handle_settings:822
gen_server <0.9637.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:59:12.352 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:59:12.352 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:59:12.352 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
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validator failed: {error,req_failed}
2022-06-27 21:59:12.353 1 [error] <0.9637.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9637.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:59:12.353 1 [error] <0.9638.1>@Undefined:Undefined:Undefined
gen_server <0.9638.1> terminated with reason: connection_down
2022-06-27 21:59:12.354 1 [error] <0.9638.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9638.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:59:12.354 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9637.1>,{function_clause,
[{http2_client,handle_settings,
[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6606>,socket_mon =>
#Ref<0.155928093.3973578754.172129>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9638.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 21:59:12.354 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9638.1>,connection_down}
```

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2022-06-27 21:59:16.671 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:59:22.355 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:59:22.670 1 [info] <0.9642.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:59:22.671 1 [info] <0.9642.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.9641.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:59:22.979 1 [error] <0.9641.1>@http2_client:handle_settings:822
gen_server <0.9641.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:59:22.981 1 [error] <0.9641.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9641.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:59:22.981 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9642.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:59:22.981 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:59:22.981 1 [error] <0.9642.1>@Undefined:Undefined:Undefined
gen_server <0.9642.1> terminated with reason: connection_down
2022-06-27 21:59:22.982 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:59:22.982 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:59:22.982 1 [error] <0.9642.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9642.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:59:22.983 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9641.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6607>,socket_mon =>
#Ref<0.155928093.3974365185.101053>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9642.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[[{file,"gen_server.erl"},{line,695}]]},
```

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{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 21:59:22.983 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9642.1>,connection_down}
2022-06-27 21:59:26.831 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:59:32.984 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 21:59:33.205 1 [info] <0.9665.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 21:59:33.206 1 [info] <0.9665.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.9664.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 21:59:33.423 1 [error] <0.9664.1>@http2_client:handle_settings:822
gen_server <0.9664.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:59:33.425 1 [error] <0.9664.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9664.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 21:59:33.429 1 [error] <0.9665.1>@Undefined:Undefined:Undefined
gen_server <0.9665.1> terminated with reason: connection_down
2022-06-27 21:59:33.429 1 [error] <0.9665.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9665.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 21:59:33.430 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9665.1>,{rcv,10000},infinity]}} , Stack:[{gen_server,call,3,
```

```
{file,"gen_server.erl"},{line,247}}},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:59:33.430 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:59:33.431 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:59:33.431 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:59:33.436 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9664.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6609>,socket_mon =>
#Ref<0.155928093.3974365185.101395>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9665.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 21:59:33.437 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9665.1>,connection_down}
2022-06-27 21:59:36.981 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 21:59:37.092 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:59:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 21:59:37.092 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:59:37 GMT">>,<<"txnb">> => 0}
2022-06-27 21:59:37.094 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6423,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 21:59:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 21:59:38.033 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112hCknEyUz4EmCbSvxikm18zHxEcVPJt9U7L8ouxz9353d6hnUw" informed us of
our observed address "/ip4/80.77.186.186/tcp/36984"
2022-06-27 21:59:40.002 1 [info]
<0.1635.0>@libp2p_group_gossip_server:remove_worker:{682,59} Deleted 0 pids
from seed
2022-06-27 21:59:40.003 1 [info]
<0.1635.0>@libp2p_group_gossip_server:remove_worker:{682,59} Deleted 4 pids
from peerbook
2022-06-27 21:59:40.004 1 [info]
<0.1635.0>@libp2p_group_gossip_server:remove_worker:{682,59} Deleted 11 pids
from inbound
2022-06-27 21:59:43.012 1 [notice]
```



<0.9399.1>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 21:59:43.435 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "35.82.239.134":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:59:43.646 1 [info] <0.9695.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 21:59:43.647 1 [info] <0.9695.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"35.82.239.134">>,http\_connection => <0.9692.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 21:59:43.853 1 [error] <0.9692.1>@http2\_client:handle\_settings:822  
gen\_server <0.9692.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 21:59:43.854 1 [error] <0.9692.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.9692.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 21:59:43.856 1 [error] <0.9695.1>@Undefined:Undefined:Undefined  
gen\_server <0.9695.1> terminated with reason: connection\_down  
2022-06-27 21:59:43.857 1 [error] <0.9695.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.9695.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 21:59:43.857 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.9695.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,

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[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 21:59:43.857 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 21:59:43.857 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 21:59:43.857 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 21:59:43.859 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9692.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6615>,socket_mon =>
#Ref<0.155928093.3974365185.101856>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9695.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]]}
```

2022-06-27 21:59:43.859 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.9695.1>,connection\_down}  
2022-06-27 21:59:47.128 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 21:59:53.859 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.49.199.40":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 21:59:57.281 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:00:07.095 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:00:07 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 22:00:07.096 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:00:07 GMT">>,<<"txnb">> => 0}  
2022-06-27 22:00:07.097 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=6426,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:00:07 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 22:00:07.421 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:00:17.571 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:00:19.041 1 [info] <0.1636.0>@libp2p\_peerbook:notify\_peers:  
{726,5} gossiping out 115 notify peers  
2022-06-27 22:00:23.864 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}]],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,

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[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 22:00:23.864 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:00:23.865 1 [error] <0.9718.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9718.1> with 0 neighbours exited with reason: timeout
in gen_server:init_it/6 line 407
2022-06-27 22:00:23.865 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9718.1>,timeout}
2022-06-27 22:00:27.711 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:00:33.866 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:00:34.079 1 [info] <0.9722.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:00:34.080 1 [info] <0.9722.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.9721.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:00:34.288 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9722.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[[file,"gen_server.erl"],{line,247}]],
{grpc_client_stream_custom,process_response,2,
[[file,"grpc_client_stream_custom.erl"],{line,418}]],{grpc_client_custom,unary,6,
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
```

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{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:00:34.288 1 [error] <0.9721.1>@http2_client:handle_settings:822
gen_server <0.9721.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:00:34.288 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:00:34.289 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:00:34.289 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:00:34.289 1 [error] <0.9721.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9721.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:00:34.289 1 [error] <0.9722.1>@Undefined:Undefined:Undefined
gen_server <0.9722.1> terminated with reason: connection_down
2022-06-27 22:00:34.289 1 [error] <0.9722.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9722.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:00:34.291 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9721.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{56,
{<<":authority">>,<<"44.229.159.157">>}}],{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6624>,socket_mon =>
#Ref<0.155928093.3974365185.103237>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9722.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:00:34.291 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9722.1>,connection_down}
2022-06-27 22:00:37.096 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:00:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:00:37.097 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:00:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:00:37.098 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6430,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:00:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:00:37.854 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:00:44.291 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:00:44.555 1 [info] <0.9725.1>@grpc_client_stream_custom:init:
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{131,9} init stream for RPC validators and type unary
2022-06-27 22:00:44.557 1 [info] <0.9725.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.9724.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:00:44.811 1 [error] <0.9724.1>@http2_client:handle_settings:822
gen_server <0.9724.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:00:44.812 1 [error] <0.9724.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9724.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:00:44.814 1 [error] <0.9725.1>@Undefined:Undefined:Undefined
gen_server <0.9725.1> terminated with reason: connection_down
2022-06-27 22:00:44.814 1 [error] <0.9725.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9725.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:00:44.815 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9725.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:00:44.815 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:00:44.815 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:00:44.816 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:00:44.817 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9724.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.39.165.144">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6625>,socket_mon =>
#Ref<0.155928093.3974365185.103475>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9725.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:00:44.818 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9725.1>,connection_down}
2022-06-27 22:00:47.998 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```



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2022-06-27 22:00:54.818 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:00:55.035 1 [info] <0.9728.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:00:55.037 1 [info] <0.9728.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.9727.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:00:55.245 1 [error] <0.9727.1>@http2_client:handle_settings:822
gen_server <0.9727.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:00:55.248 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9728.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:00:55.248 1 [error] <0.9727.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9727.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:00:55.249 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:00:55.249 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:00:55.250 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:00:55.251 1 [error] <0.9728.1>@Undefined:Undefined:Undefined
gen_server <0.9728.1> terminated with reason: connection_down
2022-06-27 22:00:55.252 1 [error] <0.9728.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9728.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:00:55.253 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9727.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"44.229.159.157">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6626>,socket_mon =>
#Ref<0.155928093.3974365185.103778>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9728.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 22:00:55.253 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.9728.1>,connection\_down}  
2022-06-27 22:00:58.151 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:01:05.253 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.24.161.210":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:01:05.568 1 [info] <0.9731.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 22:01:05.569 1 [info] <0.9731.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.24.161.210">>,http\_connection => <0.9730.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 22:01:05.876 1 [error] <0.9730.1>@http2\_client:handle\_settings:822 gen\_server <0.9730.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 22:01:05.877 1 [error] <0.9730.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.9730.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 22:01:05.879 1 [error] <0.9731.1>@Undefined:Undefined:Undefined gen\_server <0.9731.1> terminated with reason: connection\_down  
2022-06-27 22:01:05.879 1 [error] <0.9731.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.9731.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:01:05.879 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.9731.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6,

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[[file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl",{line,226}}]}]
2022-06-27 22:01:05.880 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:01:05.881 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:01:05.881 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:01:05.883 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9730.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{54,
{<<":authority">>,<<"3.24.161.210">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6627>,socket_mon =>
#Ref<0.155928093.3974365185.104037>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9731.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[[file,"http2_client.erl",{line,822}}],
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:01:05.883 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9731.1>,connection_down}
2022-06-27 22:01:07.091 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:01:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:01:07.091 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:01:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:01:07.093 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6434,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:01:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:01:08.304 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:01:15.883 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:01:15.957 1 [info] <0.9734.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:01:15.958 1 [info] <0.9734.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.9733.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:01:16.028 1 [error] <0.9733.1>@http2_client:handle_settings:822
gen_server <0.9733.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:01:16.031 1 [error] <0.9733.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9733.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:01:16.031 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9734.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:01:16.031 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:01:16.032 1 [error] <0.9734.1>@Undefined:Undefined:Undefined
gen_server <0.9734.1> terminated with reason: connection_down
2022-06-27 22:01:16.032 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:01:16.032 1 [error] <0.9734.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9734.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:01:16.032 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:01:16.035 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9733.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6628>,socket_mon =>
#Ref<0.155928093.3974365185.104276>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9734.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:01:16.036 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9734.1>,connection_down} 2022-06-27
22:01:18.454 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:01:22.112 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.9742.1>, Ref:
#Ref<0.155928093.3974365185.104483>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ" 2022-06-27
22:01:26.035 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:01:26.102 1 [info] <0.9774.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:01:26.104 1 [info] <0.9774.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.9773.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:01:26.164 1 [error] <0.9773.1>@http2_client:handle_settings:822
gen_server <0.9773.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:01:26.165 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9774.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:01:26.165 1 [error] <0.9773.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9773.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:01:26.165 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:01:26.165 1 [error] <0.9774.1>@Undefined:Undefined:Undefined
gen_server <0.9774.1> terminated with reason: connection_down
2022-06-27 22:01:26.165 1 [error] <0.9774.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9774.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:01:26.166 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```



client error response

2022-06-27 22:01:26.166 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:01:26.168 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.9773.1>,{function\_clause,

[{http2\_client,handle\_settings,

[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,

{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,

{<<"content-type">>,<<"application/grpc+proto">>}},{54,

{<<":authority">>,<<"3.72.143.228">>}},{63,<<":path">>,<<"/helium.gateway/

validators">>}}],host => "3.72.143.228",last\_stream => 1,owner =>

<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size

=> 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},server\_window => 65528,socket => #Port<0.6630>,socket\_mon =>

#Ref<0.155928093.3974365185.104800>,state => open,stream\_count =>

1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>

1,owner => <0.9774.1>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>

gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],

{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],

{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],

{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:01:26.169 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.9774.1>,connection\_down}

2022-06-27 22:01:28.605 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:01:33.769 1 [info] <0.1662.0>@blockchain\_worker:handle\_info: {673,53} block sync down: normal

2022-06-27 22:01:36.169 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.49.199.40":

```
{gateway_validators_req_v1_pb,1}
2022-06-27 22:01:37.094 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:01:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:01:37.094 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:01:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:01:37.095 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6438,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:01:37 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:01:38.747 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:01:48.907 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:01:59.041 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:02:03.979 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11m8MLX9Ly3THmibZphbrKGA9hw68rtNoo6TpY6rc96wJzsv3r" informed us of
our observed address "/ip4/80.77.186.186/tcp/14540"
2022-06-27 22:02:06.172 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,719}}]},
{{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}}]
2022-06-27 22:02:06.172 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

2022-06-27 22:02:06.173 1 [error] <0.9782.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.9782.1> with 0 neighbours exited with reason: timeout  
in gen\_server:init\_it/6 line 407

2022-06-27 22:02:06.174 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.9782.1>,timeout}

2022-06-27 22:02:07.102 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:02:07 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152

2022-06-27 22:02:07.103 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:02:07 GMT">>,<<"txnb">> => 0}

2022-06-27 22:02:07.105 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=6442,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:02:07 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}

2022-06-27 22:02:09.185 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

2022-06-27 22:02:16.175 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.39.165.144":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 22:02:16.436 1 [info] <0.9800.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary

2022-06-27 22:02:16.437 1 [info] <0.9800.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"3.39.165.144">>,http\_connection => <0.9799.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler

2022-06-27 22:02:16.695 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

```
{gen_server,call,[<0.9800.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:02:16.695 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:02:16.696 1 [error] <0.9799.1>@http2_client:handle_settings:822
gen_server <0.9799.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:02:16.697 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:02:16.697 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:02:16.699 1 [error] <0.9799.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9799.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:02:16.699 1 [error] <0.9800.1>@Undefined:Undefined:Undefined
gen_server <0.9800.1> terminated with reason: connection_down
2022-06-27 22:02:16.700 1 [error] <0.9800.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9800.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:02:16.702 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9799.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.39.165.144">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6637>,socket_mon =>
#Ref<0.155928093.3973578754.172639>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9800.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:02:16.703 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9800.1>,connection_down} 2022-06-27
22:02:19.328 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:02:21.715 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
inbound <0.9701.1>
2022-06-27 22:02:26.700 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:02:26.920 1 [info] <0.9812.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:02:26.922 1 [info] <0.9812.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.9809.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:02:27.137 1 [error] <0.9809.1>@http2_client:handle_settings:822
gen_server <0.9809.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:02:27.138 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9812.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:02:27.138 1 [error] <0.9809.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9809.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:02:27.138 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:02:27.139 1 [error] <0.9812.1>@Undefined:Undefined:Undefined
gen_server <0.9812.1> terminated with reason: connection_down
2022-06-27 22:02:27.139 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:02:27.139 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

2022-06-27 22:02:27.139 1 [error] <0.9812.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.9812.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:02:27.141 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.9809.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{56,  
{<<":authority">>,<<"52.220.227.216">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}]},host => "52.220.227.216",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6638>,socket\_mon =>  
#Ref<0.155928093.3974365185.106340>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.9812.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:02:27.141 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.9812.1>,connection\_down}

2022-06-27 22:02:28.003 1 [info] <0.1662.0>@blockchain\_worker:target\_sync:  
{836,5} targeted block sync starting with Pid: <0.9815.1>, Ref:  
#Ref<0.155928093.3974365185.106387>, Peer: "/p2p/  
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"

2022-06-27 22:02:29.487 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

2022-06-27 22:02:37.097 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA

```
#{"stat": 0, "ackr": 0.0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0.0, "time": "2022-06-27 22:02:37 GMT", "txnb": 0} from
12291671073248440251 on 35152
2022-06-27 22:02:37.098 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status {"ackr": 0.0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0.0, "time": "2022-06-27 22:02:37 GMT", "txnb": 0}
2022-06-27 22:02:37.100 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6446,dropped=0,status={"ackr": 0.0, "dwnb": 0, "rxfw": 0, "rxnb": 0, "rxok": 0, "temp": 0.0, "time": "2022-06-27 22:02:37 GMT", "txnb": 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:02:37.143 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:02:37.458 1 [info] <0.9853.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:02:37.459 1 [info] <0.9853.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.9852.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:02:37.768 1 [error] <0.9852.1>@http2_client:handle_settings:822
gen_server <0.9852.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:02:37.770 1 [error] <0.9852.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9852.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:02:37.771 1 [error] <0.9853.1>@Undefined:Undefined:Undefined
```



```
gen_server <0.9853.1> terminated with reason: connection_down
2022-06-27 22:02:37.772 1 [error] <0.9853.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9853.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:02:37.773 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9853.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:02:37.774 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:02:37.774 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:02:37.774 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:02:37.778 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9852.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6640>,socket_mon =>
#Ref<0.155928093.3974365185.106846>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9853.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:02:37.780 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9853.1>,connection_down}
2022-06-27 22:02:39.032 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 22:02:39.074 1 [info] <0.1662.0>@blockchain_worker:start_sync:
{888,13} new block sync starting with Pid: <0.9855.1>, Ref:
#Ref<0.155928093.3973578754.172960>, Peer: "/p2p/
11dneRaBrkGHswVKdKtHPMdKbGj1w55ZDxrue4AbCcSaxstC6Gt" 2022-06-27
22:02:39.638 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:02:47.777 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:02:47.927 1 [info] <0.9857.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:02:47.929 1 [info] <0.9857.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.9856.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:02:48.075 1 [error] <0.9856.1>@http2_client:handle_settings:822
gen_server <0.9856.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:02:48.077 1 [error] <0.9856.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9856.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:02:48.077 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9857.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:02:48.077 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:02:48.078 1 [error] <0.9857.1>@Undefined:Undefined:Undefined
gen_server <0.9857.1> terminated with reason: connection_down
2022-06-27 22:02:48.078 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:02:48.078 1 [error] <0.9857.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9857.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:02:48.078 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:02:48.081 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9856.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.13.130.184">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6646>,socket_mon =>
#Ref<0.155928093.3973578754.172989>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9857.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:02:48.081 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9857.1>,connection_down}
2022-06-27 22:02:49.778 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:02:58.080 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:02:58.228 1 [info] <0.9860.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:02:58.230 1 [info] <0.9860.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.9859.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:02:58.365 1 [error] <0.9859.1>@http2_client:handle_settings:822
gen_server <0.9859.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:02:58.366 1 [error] <0.9859.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9859.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:02:58.367 1 [error] <0.9860.1>@Undefined:Undefined:Undefined
gen_server <0.9860.1> terminated with reason: connection_down
2022-06-27 22:02:58.367 1 [error] <0.9860.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9860.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:02:58.367 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9860.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:02:58.368 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:02:58.368 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:02:58.368 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

2022-06-27 22:02:58.370 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9859.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6647>,socket_mon =>
#Ref<0.155928093.3974365185.107299>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9860.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}
```

2022-06-27 22:02:58.370 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9860.1>,connection_down}
```

2022-06-27 22:02:59.921 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 22:03:07.108 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:03:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

```
2022-06-27 22:03:07.109 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 22:03:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:03:07.111 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6450,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:03:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:03:08.370 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:03:08.443 1 [info] <0.9864.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:03:08.444 1 [info] <0.9864.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.9863.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:03:08.513 1 [error] <0.9863.1>@http2_client:handle_settings:822
gen_server <0.9863.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:03:08.514 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9864.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 22:03:08.515 1 [error] <0.9863.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9863.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:03:08.515 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:03:08.515 1 [error] <0.9864.1>@Undefined:Undefined:Undefined
gen_server <0.9864.1> terminated with reason: connection_down
2022-06-27 22:03:08.516 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:03:08.516 1 [error] <0.9864.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9864.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:03:08.516 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:03:08.518 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9863.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.210.14.128">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6648>,socket_mon =>
#Ref<0.155928093.3974365185.107543>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9864.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```



```
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 22:03:08.519 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9864.1>,connection_down}
2022-06-27 22:03:10.071 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:03:18.012 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11syDz3wawaQwAZWRjhPJRJtN2SRsJ25npvuzRjqi8UKuQYPy7P" informed us of
our observed address "/ip4/80.77.186.186/tcp/16595"
2022-06-27 22:03:18.519 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:03:18.586 1 [info] <0.9887.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:03:18.588 1 [info] <0.9887.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.9886.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:03:18.647 1 [error] <0.9886.1>@http2_client:handle_settings:822
gen_server <0.9886.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:03:18.648 1 [error] <0.9886.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9886.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:03:18.648 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9887.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:03:18.648 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:03:18.649 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:03:18.649 1 [error] <0.9887.1>@Undefined:Undefined:Undefined
gen_server <0.9887.1> terminated with reason: connection_down
2022-06-27 22:03:18.649 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:03:18.650 1 [error] <0.9887.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9887.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:03:18.651 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9886.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"3.72.215.7">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6654>,socket_mon =>
#Ref<0.155928093.3973578754.173165>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9887.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:03:18.651 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9887.1>,connection_down}
2022-06-27 22:03:20.225 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:03:28.652 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:03:28.915 1 [info] <0.9891.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:03:28.916 1 [info] <0.9891.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.9890.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:03:29.176 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9891.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

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[{file,"grpc_client_custom.erl"},{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:03:29.176 1 [error] <0.9890.1>@http2_client:handle_settings:822
gen_server <0.9890.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:03:29.176 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:03:29.176 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:03:29.176 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:03:29.177 1 [error] <0.9890.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9890.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:03:29.178 1 [error] <0.9891.1>@Undefined:Undefined:Undefined
gen_server <0.9891.1> terminated with reason: connection_down
2022-06-27 22:03:29.178 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9890.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6655>,socket_mon =>
#Ref<0.155928093.3973578754.173197>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9891.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:03:29.178 1 [error] <0.9891.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9891.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:03:29.178 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9891.1>,connection_down}
2022-06-27 22:03:30.361 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:03:37.107 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:03:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:03:37.108 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:03:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:03:37.110 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6454,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:03:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
```

```
2022-06-27 22:03:39.179 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:03:39.402 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 2,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"AE4AAPB+1bNwtDIAACBX+Yzy/FeWbwo=">>,<<"datr">> =>
<<"SF7BW125">>,<<"foff">> => 7308,<<"freq">> => 868.5,<<"jver">> =>
1,<<"lsnr">> => -8.2,<<"mid">> => 8,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 1,<<"rssi">> => -108,<<"rssid">> => -116,<<"size">> => 23,<<"stat">> =>
1,<<"tmst">> => 1690512755]}} from 12291671073248440251 on 35152
2022-06-27 22:03:39.437 1 [info] <0.9919.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:03:39.438 1 [info] <0.9919.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.9918.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:03:39.692 1 [error] <0.9918.1>@http2_client:handle_settings:822
gen_server <0.9918.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:03:39.692 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9919.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

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{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 22:03:39.692 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:03:39.693 1 [error] <0.9918.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9918.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:03:39.693 1 [error] <0.9919.1>@Undefined:Undefined:Undefined
gen_server <0.9919.1> terminated with reason: connection_down
2022-06-27 22:03:39.694 1 [error] <0.9919.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9919.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:03:39.694 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:03:39.694 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:03:39.696 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9918.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6656>,socket_mon =>
#Ref<0.155928093.3974365185.108565>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9919.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>]],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 22:03:39.696 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9919.1>,connection_down}
2022-06-27 22:03:40.505 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:03:43.552 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.9921.1>, Ref:
#Ref<0.155928093.3974365185.108680>, Peer: "/p2p/
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 22:03:49.697 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:03:49.764 1 [info] <0.9926.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:03:49.767 1 [info] <0.9926.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.9925.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:03:49.826 1 [error] <0.9925.1>@http2_client:handle_settings:822
gen_server <0.9925.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:03:49.829 1 [error] <0.9925.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9925.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```



```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:03:49.830 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9926.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:03:49.830 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:03:49.831 1 [error] <0.9926.1>@Undefined:Undefined:Undefined
gen_server <0.9926.1> terminated with reason: connection_down
2022-06-27 22:03:49.831 1 [error] <0.9926.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9926.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:03:49.832 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:03:49.832 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:03:49.834 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9925.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6657>,socket_mon =>
#Ref<0.155928093.3974365185.108918>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9926.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:03:49.835 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9926.1>,connection_down}
2022-06-27 22:03:50.644 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:03:54.762 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 22:03:59.834 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:03:59.899 1 [info] <0.9929.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:03:59.900 1 [info] <0.9929.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.9928.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:03:59.958 1 [error] <0.9928.1>@http2_client:handle_settings:822
gen_server <0.9928.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:03:59.961 1 [error] <0.9928.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9928.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:03:59.961 1 [error] <0.9929.1>@Undefined:Undefined:Undefined
gen_server <0.9929.1> terminated with reason: connection_down
2022-06-27 22:03:59.961 1 [error] <0.9929.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9929.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:03:59.962 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.9929.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:03:59.963 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:03:59.967 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:03:59.968 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:03:59.971 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9928.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6658>,socket_mon =>
#Ref<0.155928093.3974365185.109136>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9929.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:03:59.972 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9929.1>,connection_down} 2022-06-27
22:04:00.798 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:04:06.178 1 [notice]
<0.9946.1>@libp2p_multistream_server:handle_info:{108,13} Failed to handshake
client "/ip4/192.168.5.233/tcp/51982": closed
2022-06-27 22:04:07.109 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:04:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:04:07.109 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:04:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:04:07.111 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=6458,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:04:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:04:09.969 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:04:10.944 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:04:21.084 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:04:31.225 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:04:37.110 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:04:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:04:37.111 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:04:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:04:37.112 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6462,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:04:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:04:39.974 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{:miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{:file,"miner_poc_grpc_client_statem.erl"},{:line,719}]}],
{:miner_poc_grpc_client_statem,find_validator,0,
[{:file,"miner_poc_grpc_client_statem.erl"},{:line,467}]}],
{:miner_poc_grpc_client_statem,setup,3,
[{:file,"miner_poc_grpc_client_statem.erl"},{:line,221}]}],
{:gen_statem,loop_state_callback,11,[{:file,"gen_statem.erl"},{:line,1203}]}],
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 22:04:39.974 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:04:39.976 1 [error] <0.9949.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.9949.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 22:04:39.977 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9949.1>,timeout}
2022-06-27 22:04:41.368 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:04:49.977 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:04:50.203 1 [info] <0.9998.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:04:50.207 1 [info] <0.9998.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.9997.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:04:50.423 1 [error] <0.9997.1>@http2_client:handle_settings:822
gen_server <0.9997.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:04:50.427 1 [error] <0.9997.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.9997.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:04:50.428 1 [error] <0.9998.1>@Undefined:Undefined:Undefined
gen_server <0.9998.1> terminated with reason: connection_down
2022-06-27 22:04:50.429 1 [error] <0.9998.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.9998.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:04:50.429 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.9998.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 22:04:50.430 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 22:04:50.431 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 22:04:50.432 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:04:50.434 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.9997.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[],},encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,  
{<<":authority">>,<<"13.215.29.4">>}}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "13.215.29.4",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

```
16384},server_window => 65528,socket => #Port<0.6671>,socket_mon =>
#Ref<0.155928093.3974365185.110634>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.9998.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 22:04:50.434 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.9998.1>,connection_down}
2022-06-27 22:04:51.512 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:05:00.435 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:05:00.701 1 [info] <0.10007.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:05:00.703 1 [info] <0.10007.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.10006.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:05:00.956 1 [error]
<0.10006.1>@http2_client:handle_settings:822 gen_server <0.10006.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:05:00.957 1 [error]
<0.10006.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10006.1> with 0 neighbours crashed with reason: no function clause matching
```



```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:05:00.958 1 [error] <0.10007.1>@Undefined:Undefined:Undefined
gen_server <0.10007.1> terminated with reason: connection_down
2022-06-27 22:05:00.959 1 [error] <0.10007.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10007.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:05:00.959 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10007.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:05:00.959 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:05:00.960 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:05:00.960 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:05:00.961 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10006.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {56,
{<<":authority">>,<<"18.228.115.118">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}}], host => "18.228.115.118", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.6672>, socket_mon =>
#Ref<0.155928093.3974365185.110858>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.10007.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}], timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file,"http2_client.erl"}, {line,822}],
{http2_client, handle_packet, 2, [{file,"http2_client.erl"}, {line,648}]},
{gen_server, try_dispatch, 4, [{file,"gen_server.erl"}, {line,695}]},
{gen_server, handle_msg, 6, [{file,"gen_server.erl"}, {line,771}]},
{proc_lib, init_p_do_apply, 3, [{file,"proc_lib.erl"}, {line,226}]}}]
2022-06-27 22:05:00.962 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10007.1>,connection_down} 2022-06-27
22:05:01.658 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:05:07.113 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:05:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:05:07.114 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:05:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:05:07.115 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6466,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:05:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:05:07.157 1 [info] <0.1662.0>@blockchain_worker:target_sync:
{836,5} targeted block sync starting with Pid: <0.10009.1>, Ref:
#Ref<0.155928093.3974365185.110985>, Peer: "/p2p/
```

```
112JKihtoAxZQmEGopgeRkyDEtnhtP75R2PjWdMHzsmtKKh5vZJQ"
2022-06-27 22:05:10.963 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:05:11.184 1 [info] <0.10014.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:05:11.185 1 [info] <0.10014.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.10013.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:05:11.400 1 [error] <0.10013.1>@http2_client:handle_settings:822
gen_server <0.10013.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:05:11.401 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10014.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:05:11.401 1 [error] <0.10013.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10013.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
```

2022-06-27 22:05:11.401 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 22:05:11.402 1 [error] <0.10014.1>@Undefined:Undefined:Undefined gen\_server <0.10014.1> terminated with reason: connection\_down

2022-06-27 22:05:11.402 1 [error] <0.10014.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.10014.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:05:11.403 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 22:05:11.403 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:05:11.405 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10013.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"13.215.75.202">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "13.215.75.202",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6673>,socket\_mon => #Ref<0.155928093.3974365185.111118>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10014.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:05:11.405 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10014.1>,connection\_down} 2022-06-27 22:05:11.801 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:05:18.195 1 [info] <0.1662.0>@blockchain\_worker:handle\_info:{673,53} block sync down: normal

2022-06-27 22:05:21.406 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.131.232.233":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 22:05:21.551 1 [info] <0.10024.1>@grpc\_client\_stream\_custom:init:{131,9} init stream for RPC validators and type unary

2022-06-27 22:05:21.553 1 [info] <0.10024.1>@grpc\_client\_stream\_custom:init:{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.131.232.233">>,http\_connection => <0.10023.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 22:05:21.690 1 [error] <0.10023.1>@http2\_client:handle\_settings:822 gen\_server <0.10023.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 22:05:21.691 1 [error] <0.10023.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.10023.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 22:05:21.691 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:{283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.10024.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

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{file,"miner_poc_grpc_client_statem.erl"},{line,721}}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 22:05:21.691 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:05:21.692 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:05:21.692 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:05:21.692 1 [error] <0.10024.1>@Undefined:Undefined:Undefined
gen_server <0.10024.1> terminated with reason: connection_down
2022-06-27 22:05:21.693 1 [error] <0.10024.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10024.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:05:21.694 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10023.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6674>,socket_mon =>
#Ref<0.155928093.3974365185.111389>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10024.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 22:05:21.694 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10024.1>,connection_down}
2022-06-27 22:05:21.948 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:05:31.695 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:05:31.762 1 [info] <0.10032.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:05:31.763 1 [info] <0.10032.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.10031.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:05:31.822 1 [error] <0.10031.1>@http2_client:handle_settings:822
gen_server <0.10031.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:05:31.824 1 [error] <0.10031.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10031.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:05:31.826 1 [error] <0.10032.1>@Undefined:Undefined:Undefined
gen_server <0.10032.1> terminated with reason: connection_down
2022-06-27 22:05:31.827 1 [error] <0.10032.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.10032.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:05:31.827 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.10032.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 22:05:31.828 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 22:05:31.829 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 22:05:31.829 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:05:31.831 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10031.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[],},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "3.72.143.228",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>



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16384},server_window => 65528,socket => #Port<0.6675>,socket_mon =>
#Ref<0.155928093.3974365185.111649>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10032.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:05:31.831 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10032.1>,connection_down}
2022-06-27 22:05:32.101 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:05:37.108 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:05:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:05:37.109 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:05:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:05:37.110 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6470,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:05:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:05:41.831 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:05:42.042 1 [info] <0.10038.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:05:42.043 1 [info] <0.10038.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"52.89.130.114">>,http_connection => <0.10037.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:05:42.248 1 [error]
<0.10037.1>@http2_client:handle_settings:822 gen_server <0.10037.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:05:42.249 1 [error]
<0.10037.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10037.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:05:42.249 1 [error] <0.10038.1>@Undefined:Undefined:Undefined
gen_server <0.10038.1> terminated with reason: connection_down
2022-06-27 22:05:42.249 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10038.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:05:42.250 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:05:42.250 1 [error] <0.10038.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10038.1> with 0 neighbours exited with reason:
```

connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:05:42.251 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 22:05:42.251 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:05:42.252 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:05:42.252 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10037.1>,{function\_clause,  
[http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"52.89.130.114">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "52.89.130.114",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6676>,socket\_mon =>  
#Ref<0.155928093.3974365185.111801>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.10038.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 22:05:42.253 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10038.1>,connection\_down}  
2022-06-27 22:05:52.253 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send

unary request via new connection to ip "52.89.130.114":

```
{gateway_validators_req_v1_pb,1}
2022-06-27 22:05:52.394 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:05:52.475 1 [info] <0.10063.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:05:52.478 1 [info] <0.10063.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.10062.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:05:52.690 1 [error]
<0.10062.1>@http2_client:handle_settings:822 gen_server <0.10062.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:05:52.691 1 [error]
<0.10062.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10062.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:05:52.691 1 [error] <0.10063.1>@Undefined:Undefined:Undefined
gen_server <0.10063.1> terminated with reason: connection_down
2022-06-27 22:05:52.691 1 [error] <0.10063.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10063.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:05:52.692 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10063.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

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[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:05:52.692 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:05:52.693 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:05:52.693 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:05:52.694 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10062.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],}],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6677>,socket_mon =>
#Ref<0.155928093.3974365185.112240>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10063.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
```

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{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 22:05:52.695 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10063.1>,connection_down}
2022-06-27 22:06:02.531 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:06:02.696 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:06:03.571 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,ehostunreach}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:06:03.571 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:06:03.572 1 [error] <0.10065.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10065.1> with 0 neighbours exited with reason:
ehostunreach in gen_server:init_it/6 line 407
2022-06-27 22:06:03.572 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10065.1>,ehostunreach}
2022-06-27 22:06:03.756 1 [notice]
<0.9871.1>@libp2p_yamux_session:handle_info:{189,5} Session liveness failure
2022-06-27 22:06:07.113 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:06:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:06:07.113 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:06:07 GMT">>,<<"txnb">> => 0}
```

2022-06-27 22:06:07.115 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6474,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 22:06:07 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 22:06:09.021 1 [warning]  
<0.1640.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/11syDz3wawaQwAZWRjhPJRJtN2SRsJ25npvuzRjq8UKuQYPy7P": [{"/ip4/46.30.182.31/tcp/44158",ehostunreach}]  
2022-06-27 22:06:12.697 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:06:13.530 1 [notice]  
<0.9481.1>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 22:06:13.573 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.30.1.39":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:06:13.654 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,ehostunreach}},  
[{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,719}]}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}],  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]}],  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]}]  
2022-06-27 22:06:13.654 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 22:06:13.656 1 [error] <0.10070.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.10070.1> with 0 neighbours exited with reason: ehostunreach in gen\_server:init\_it/6 line 407  
2022-06-27 22:06:13.656 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10070.1>,ehostunreach}  
2022-06-27 22:06:20.918 1 [notice]  
<0.9825.1>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 22:06:21.241 1 [notice]  
<0.9703.1>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure

2022-06-27 22:06:21.839 1 [notice]  
<0.9974.1>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 22:06:22.838 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:06:23.658 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.13.130.184":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:06:23.884 1 [notice]  
<0.9453.1>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 22:06:24.289 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,ehostunreach}},  
[{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,719}]}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}],  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 22:06:24.289 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:06:24.291 1 [error] <0.10079.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.10079.1> with 0 neighbours exited with reason:  
ehostunreach in gen\_server:init\_it/6 line 407  
2022-06-27 22:06:24.291 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10079.1>,ehostunreach}  
2022-06-27 22:06:24.365 1 [notice]  
<0.9764.1>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 22:06:25.059 1 [notice]  
<0.10084.1>@libp2p\_multistream\_client:negotiate\_handler:{14,13} Client  
handshake failed for "gossip/1.0.2": closed  
2022-06-27 22:06:25.059 1 [warning]  
<0.1641.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/  
11m8MLX9Ly3THmibZphbrKGA9hw68rtNoo6TpY6rc96wJjzsv3r": closed  
2022-06-27 22:06:25.130 1 [notice]  
<0.6782.1>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 22:06:25.150 1 [info] <0.1657.0>@libp2p\_relay\_server:handle\_info:  
{172,5} Relay session with address "/p2p/  
112AWGsXhaneQqj3UHTPqgFYzM7EjHmMPF4BaPHVqt2vTwpKH5n5/p2p-circuit/



p2p/11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv" closed  
with reason normal  
2022-06-27 22:06:26.127 1 [warning]  
<0.1645.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/18.196.12.213/tcp/443": ehostunreach  
2022-06-27 22:06:26.771 1 [warning]  
<0.1642.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/  
112PgEuGhvP6pPKDPhaG7jk2dSvH3T6P1jGbvgnYXmduWhfYbyTP": [{"/  
ip4/94.55.134.202/tcp/44158",ehostunreach}]  
2022-06-27 22:06:27.698 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:06:28.354 1 [warning]  
<0.1638.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/  
112hCknEyUz4EmCbSvxikm18zHxEcVPJt9U7L8ouxz9353d6hnUw": [{"/  
ip4/94.55.248.26/tcp/44158",ehostunreach}]  
2022-06-27 22:06:29.551 1 [warning]  
<0.1646.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/13.211.2.73/tcp/2154": ehostunreach  
2022-06-27 22:06:29.809 1 [warning]  
<0.1644.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/35.82.232.132/tcp/443": ehostunreach  
2022-06-27 22:06:30.224 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:06:32.745 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:06:32.971 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:06:33.245 1 [info] <0.1662.0>@blockchain\_worker:start\_sync:  
{888,13} new block sync starting with Pid: <0.10094.1>, Ref:  
#Ref<0.155928093.3974365185.113209>, Peer: "/p2p/  
11d35HXzW71o2ERKBJ6HPPn6UgBdtxDuz235zuZ4shBYhpDqwtK"  
2022-06-27 22:06:34.294 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.89.130.114":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:06:34.366 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,ehostunreach}},  
[{"miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{"line,719}]]},

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{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 22:06:34.366 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:06:34.367 1 [error] <0.10095.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10095.1> with 0 neighbours exited with reason:
ehostunreach in gen_server:init_it/6 line 407
2022-06-27 22:06:34.367 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10095.1>,ehostunreach}
2022-06-27 22:06:35.265 1 [info] <0.1657.0>@libp2p_relay_server:init_relay:
{242,13} initiating relay with peer "/p2p/
112bfqoor2xPCPt8Hsp4PZ3zHwZQJ5A97uW2L1Y6eQDhs3k8Xzx1"
2022-06-27 22:06:35.388 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{165,13} could not initiate relay with
"/p2p/112bfqoor2xPCPt8Hsp4PZ3zHwZQJ5A97uW2L1Y6eQDhs3k8Xzx1" [{"/
ip4/79.169.153.107/tcp/44158",ehostunreach}]
2022-06-27 22:06:37.109 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:06:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:06:37.110 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:06:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:06:37.112 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6478,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:06:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:06:37.909 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 22:06:40.429 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
```

{error,retry}  
2022-06-27 22:06:42.967 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:06:43.134 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:06:44.370 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "54.251.77.229":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:06:44.572 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,ehostunreach}},  
[{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,719}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]]  
2022-06-27 22:06:44.573 1 [error] <0.10096.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.10096.1> with 0 neighbours exited with reason:  
ehostunreach in gen\_server:init\_it/6 line 407  
2022-06-27 22:06:44.572 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:06:44.573 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10096.1>,ehostunreach}  
2022-06-27 22:06:45.490 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:06:46.441 1 [warning]  
<0.1645.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/54.232.171.76/tcp/2154": ehostunreach  
2022-06-27 22:06:48.016 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:06:50.561 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:06:51.904 1 [info]

<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/112FbkejY73eBAscqBhM752bogxR2BBpmAqzsNbLYtBvTUDPL2ii" informed us of our observed address "/ip4/80.77.186.186/tcp/7336"  
2022-06-27 22:06:53.101 1 [warning]

<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}  
2022-06-27 22:06:53.271 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:06:54.104 1 [info] <0.10130.1>@libp2p\_transport\_proxy:connect:{38,5} init proxy with ["/p2p/112NEaW5fAH373iWskjAjlRktSsRL9zUfrCEULNudzNByDTrjuR","/p2p/1114DCtXFn4MUPg1HLe9Fdq32Zw2LmJPbCD5dUz9XNh31QpG9M8"]  
2022-06-27 22:06:54.110 1 [error]

<0.10130.1>@libp2p\_transport\_proxy:connect\_to:{69,13} failed to dial proxy server "/p2p/112NEaW5fAH373iWskjAjlRktSsRL9zUfrCEULNudzNByDTrjuR" not\_found  
2022-06-27 22:06:54.112 1 [warning]

<0.1640.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/1114DCtXFn4MUPg1HLe9Fdq32Zw2LmJPbCD5dUz9XNh31QpG9M8": [{"/p2p/112NEaW5fAH373iWskjAjlRktSsRL9zUfrCEULNudzNByDTrjuR/p2p-circuit/p2p/1114DCtXFn4MUPg1HLe9Fdq32Zw2LmJPbCD5dUz9XNh31QpG9M8",fail\_dial\_proxy}]  
2022-06-27 22:06:54.576 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.72.143.228":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:06:54.641 1 [info] <0.10132.1>@grpc\_client\_stream\_custom:init:{131,9} init stream for RPC validators and type unary  
2022-06-27 22:06:54.642 1 [info] <0.10132.1>@grpc\_client\_stream\_custom:init:{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.72.143.228">>,http\_connection => <0.10131.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 22:06:54.702 1 [error] <0.10131.1>@http2\_client:handle\_settings:822 gen\_server <0.10131.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

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4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:06:54.704 1 [error] <0.10131.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10131.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:06:54.705 1 [error] <0.10132.1>@Undefined:Undefined:Undefined
gen_server <0.10132.1> terminated with reason: connection_down
2022-06-27 22:06:54.705 1 [error] <0.10132.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10132.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:06:54.706 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10132.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:06:54.706 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:06:54.707 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:06:54.707 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:06:54.708 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10131.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.72.143.228">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6731>,socket_mon =>
#Ref<0.155928093.3973316611.230530>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10132.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 22:06:54.709 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10132.1>,connection_down} 2022-06-27
22:06:55.623 1 [warning] <0.1657.0>@libp2p_relay_server:handle_info:{168,13}
could not initiate relay {error,retry}
2022-06-27 22:06:58.156 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 22:07:00.682 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 22:07:03.208 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 22:07:03.407 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:07:04.710 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:07:05.027 1 [info] <0.10135.1>@grpc_client_stream_custom:init:
```

```
{131,9} init stream for RPC validators and type unary
2022-06-27 22:07:05.029 1 [info] <0.10135.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.10134.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:07:05.341 1 [error] <0.10134.1>@http2_client:handle_settings:822
gen_server <0.10134.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:07:05.343 1 [error] <0.10134.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10134.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:07:05.344 1 [error] <0.10135.1>@Undefined:Undefined:Undefined
gen_server <0.10135.1> terminated with reason: connection_down
2022-06-27 22:07:05.345 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10135.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:07:05.345 1 [error] <0.10135.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10135.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:07:05.345 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}  
2022-06-27 22:07:05.346 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 22:07:05.348 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 22:07:05.352 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10134.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096, [{42, {<<"te">>, <<"trailers">>}}, {59, {<<"user-agent">>, <<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>, <<"application/grpc+proto">>}}, {53, {<<":authority">>, <<"3.104.32.11">>}}, {63, {<<":path">>, <<"/helium.gateway/validators">>}}]},host => "3.104.32.11",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6732>,socket\_mon => #Ref<0.155928093.3973316611.230573>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10135.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2, [{file,"http2\_client.erl"},{line,648}}], {gen\_server,try\_dispatch,4, [{file,"gen\_server.erl"},{line,695}}], {gen\_server,handle\_msg,6, [{file,"gen\_server.erl"},{line,771}}], {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 22:07:05.353 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10135.1>,connection\_down}  
2022-06-27 22:07:05.730 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}



2022-06-27 22:07:07.120 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:07:07 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 22:07:07.121 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:07:07 GMT">>,<<"txnb">> => 0}  
2022-06-27 22:07:07.122 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=6482,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:07:07 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 22:07:08.281 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:07:08.990 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/  
11tBn3wWT43hypgBiUTL4erAhgJmRUFZeniHE6eeZHnJHLTy4Pw" informed us of  
our observed address "/ip4/80.77.186.186/tcp/24058"  
2022-06-27 22:07:10.807 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:07:13.327 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:07:13.554 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:07:15.351 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.30.1.39":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:07:15.426 1 [info] <0.10154.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 22:07:15.428 1 [info] <0.10154.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"52.30.1.39">>,http\_connection => <0.10153.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:07:15.493 1 [error] <0.10153.1>@http2_client:handle_settings:822
gen_server <0.10153.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:07:15.494 1 [error] <0.10153.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10153.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:07:15.495 1 [error] <0.10154.1>@Undefined:Undefined:Undefined
gen_server <0.10154.1> terminated with reason: connection_down
2022-06-27 22:07:15.495 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10154.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:07:15.496 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:07:15.496 1 [error] <0.10154.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10154.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:07:15.498 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 22:07:15.498 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:07:15.503 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10153.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6734>,socket_mon =>
#Ref<0.155928093.3973578754.174508>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10154.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}]}
2022-06-27 22:07:15.504 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10154.1>,connection_down} 2022-06-27
22:07:15.863 1 [warning] <0.1657.0>@libp2p_relay_server:handle_info:{168,13}
could not initiate relay {error,retry}
2022-06-27 22:07:18.395 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 22:07:20.916 1 [info] <0.1657.0>@libp2p_relay_server:init_relay:
{242,13} initiating relay with peer "/p2p/
11t2omhmDJMa17Cag9a9W3iGhCKRMkhfKCRt2xtS4pbTzMtXkSv"
2022-06-27 22:07:21.715 1 [info]
```

<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for peerbook <0.1641.0>  
2022-06-27 22:07:22.019 1 [info] <0.1657.0>@libp2p\_relay\_server:handle\_info: {162,13} relay started successfully with "/p2p/11t2omhmDJMa17Cag9a9W3iGhCKRMkhfKCRt2xtS4pbTzMtXkSv"  
2022-06-27 22:07:22.339 1 [info] <0.1657.0>@libp2p\_relay\_server:handle\_call: {111,5} inserting new listener blockchain\_swarm, "/p2p/11t2omhmDJMa17Cag9a9W3iGhCKRMkhfKCRt2xtS4pbTzMtXkSv/p2p-circuit/p2p/11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv", <0.10168.1>  
2022-06-27 22:07:23.259 1 [info]  
<0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/11t2omhmDJMa17Cag9a9W3iGhCKRMkhfKCRt2xtS4pbTzMtXkSv" informed us of our observed address "/ip4/80.77.186.186/tcp/62835"  
2022-06-27 22:07:23.704 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:07:25.501 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "54.70.239.5":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:07:25.715 1 [info] <0.10175.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 22:07:25.717 1 [info] <0.10175.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"54.70.239.5">>,http\_connection => <0.10174.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{},name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[ ]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 22:07:25.924 1 [error] <0.10174.1>@http2\_client:handle\_settings:822 gen\_server <0.10174.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 22:07:25.926 1 [error] <0.10174.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.10174.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

```
2022-06-27 22:07:25.926 1 [error] <0.10175.1>@Undefined:Undefined:Undefined
gen_server <0.10175.1> terminated with reason: connection_down
2022-06-27 22:07:25.926 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10175.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:07:25.927 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:07:25.927 1 [error] <0.10175.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10175.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:07:25.927 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:07:25.928 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:07:25.931 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10174.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]}],host => "54.70.239.5",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6740>,socket_mon =>
#Ref<0.155928093.3973578754.174532>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10175.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:07:25.932 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10175.1>,connection_down} 2022-06-27
22:07:33.835 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:07:35.931 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:07:36.151 1 [info] <0.10178.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:07:36.152 1 [info] <0.10178.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.10177.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:07:36.367 1 [error] <0.10177.1>@http2_client:handle_settings:822
gen_server <0.10177.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:07:36.368 1 [error] <0.10177.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10177.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:07:36.369 1 [error] <0.10178.1>@Undefined:Undefined:Undefined
gen_server <0.10178.1> terminated with reason: connection_down
2022-06-27 22:07:36.369 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10178.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:07:36.369 1 [error] <0.10178.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10178.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:07:36.369 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:07:36.369 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:07:36.370 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:07:36.371 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10177.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {56,
{<<":authority">>,<<"52.220.227.216">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}}], host => "52.220.227.216", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.6741>, socket_mon =>
#Ref<0.155928093.3974365185.115449>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.10178.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file, "http2_client.erl"}, {line, 822}],
{http2_client, handle_packet, 2, [{file, "http2_client.erl"}, {line, 648}],
{gen_server, try_dispatch, 4, [{file, "gen_server.erl"}, {line, 695}],
{gen_server, handle_msg, 6, [{file, "gen_server.erl"}, {line, 771}],
{proc_lib, init_p_do_apply, 3, [{file, "proc_lib.erl"}, {line, 226}]}}]}
2022-06-27 22:07:36.372 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT', <0.10178.1>, connection_down} 2022-06-27
22:07:37.117 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0, <<"dwnb">> => 0, <<"rxfw">>
=> 0, <<"rxnb">> => 0, <<"rxok">> => 0, <<"temp">> => 0.0, <<"time">> =>
<<"2022-06-27 22:07:37 GMT">>, <<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:07:37.118 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0, <<"dwnb">> => 0, <<"rxfw">> =>
0, <<"rxnb">> => 0, <<"rxok">> => 0, <<"temp">> => 0.0, <<"time">> =>
<<"2022-06-27 22:07:37 GMT">>, <<"txnb">> => 0}
2022-06-27 22:07:37.119 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251, ip={172,17,0,1}, port=56833, sent=0, received=6486,
dropped=0, status=#{<<"ackr">> => 0.0, <<"dwnb">> => 0, <<"rxfw">>
=> 0, <<"rxnb">> => 0, <<"rxok">> => 0, <<"temp">> => 0.0, <<"time">> =>
<<"2022-06-27 22:07:37 GMT">>, <<"txnb">> =>
0}, rtt_samples=[], rtt=5000000}
2022-06-27 22:07:42.721 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112itRG1swNpHXbXwoxakVkJxNRHdFLBA dy8tXsJd5kVFPZ7u7r" informed us of
our observed address "/ip4/80.77.186.186/tcp/11630"
2022-06-27 22:07:43.985 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```



12291671073248440251 on 56833  
2022-06-27 22:07:46.372 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.72.215.7":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:07:46.435 1 [info] <0.10197.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 22:07:46.437 1 [info] <0.10197.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.72.215.7">>,http\_connection => <0.10196.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{},name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 22:07:46.495 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.10197.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]]]  
2022-06-27 22:07:46.496 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}  
2022-06-27 22:07:46.497 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 22:07:46.497 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 22:07:46.497 1 [error] <0.10196.1>@http2\_client:handle\_settings:822 gen\_server <0.10196.1> terminated with reason: no function clause matching

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:07:46.498 1 [error]
<0.10196.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10196.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:07:46.498 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10196.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6747>,socket_mon =>
#Ref<0.155928093.3974365185.115769>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10197.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:07:46.498 1 [error] <0.10197.1>@Undefined:Undefined:Undefined
gen_server <0.10197.1> terminated with reason: connection_down
2022-06-27 22:07:46.498 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

in setup state: Type: info, Msg: {'EXIT',<0.10197.1>,connection\_down}  
2022-06-27 22:07:46.499 1 [error] <0.10197.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.10197.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:07:54.124 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:07:56.500 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.137.92.200":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:07:56.646 1 [info] <0.10202.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 22:07:56.648 1 [info] <0.10202.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"3.137.92.200">>,http\_connection => <0.10201.1>,scheme =>  
<<"http">>,encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 22:07:56.789 1 [error] <0.10201.1>@http2\_client:handle\_settings:822  
gen\_server <0.10201.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 22:07:56.792 1 [error] <0.10201.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.10201.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 22:07:56.793 1 [error] <0.10202.1>@Undefined:Undefined:Undefined  
gen\_server <0.10202.1> terminated with reason: connection\_down  
2022-06-27 22:07:56.794 1 [error] <0.10202.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.10202.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:07:56.795 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.10202.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]}],

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:07:56.795 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:07:56.796 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:07:56.798 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:07:56.802 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10201.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6748>,socket_mon =>
#Ref<0.155928093.3973316611.230954>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10202.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:07:56.802 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10202.1>,connection_down} 2022-06-27
22:08:04.272 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:08:06.801 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:08:07.117 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:08:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:08:07.118 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:08:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:08:07.121 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6490,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:08:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:08:07.124 1 [info] <0.10213.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:08:07.125 1 [info] <0.10213.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.10212.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 22:08:07.427 1 [error] <0.10212.1>@http2_client:handle_settings:822
gen_server <0.10212.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:08:07.428 1 [error] <0.10212.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10212.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:08:07.430 1 [error] <0.10213.1>@Undefined:Undefined:Undefined
gen_server <0.10213.1> terminated with reason: connection_down
2022-06-27 22:08:07.431 1 [error] <0.10213.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10213.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:08:07.431 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10213.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:08:07.431 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:08:07.432 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:08:07.432 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:08:07.434 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.10212.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6749>,socket_mon =>
#Ref<0.155928093.3974365185.116289>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10213.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:08:07.434 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10213.1>,connection_down}
2022-06-27 22:08:14.411 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:08:17.435 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:08:17.645 1 [info] <0.10221.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:08:17.646 1 [info] <0.10221.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.10220.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:08:17.852 1 [error] <0.10220.1>@http2_client:handle_settings:822
gen_server <0.10220.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:08:17.854 1 [error] <0.10220.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10220.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:08:17.859 1 [error] <0.10221.1>@Undefined:Undefined:Undefined
gen_server <0.10221.1> terminated with reason: connection_down
2022-06-27 22:08:17.859 1 [error] <0.10221.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10221.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:08:17.860 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10221.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:08:17.860 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:08:17.861 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```



2022-06-27 22:08:17.861 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:08:17.863 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10220.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{56, {<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "44.229.159.157",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6750>,socket\_mon => #Ref<0.155928093.3974365185.116577>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10221.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:08:17.864 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10221.1>,connection\_down} 2022-06-27 22:08:24.551 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:08:27.864 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.13.130.184":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 22:08:28.008 1 [info] <0.10224.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 22:08:28.009 1 [info] <0.10224.1>@grpc\_client\_stream\_custom:init:

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.10223.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:08:28.148 1 [error]
<0.10223.1>@http2_client:handle_settings:822 gen_server <0.10223.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:08:28.150 1 [error] <0.10223.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10223.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:08:28.152 1 [error] <0.10224.1>@Undefined:Undefined:Undefined
gen_server <0.10224.1> terminated with reason: connection_down
2022-06-27 22:08:28.153 1 [error] <0.10224.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10224.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:08:28.154 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10224.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:08:28.155 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

```
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:08:28.156 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:08:28.156 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:08:28.159 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10223.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.13.130.184">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6751>,socket_mon =>
#Ref<0.155928093.3974365185.116784>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10224.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:08:28.160 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10224.1>,connection_down} 2022-06-27
22:08:34.701 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:08:37.125 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
```

```
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:08:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:08:37.126 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:08:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:08:37.128 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6494,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:08:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:08:38.159 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:08:38.381 1 [info] <0.10227.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:08:38.382 1 [info] <0.10227.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.10226.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:08:38.598 1 [error]
<0.10226.1>@http2_client:handle_settings:822 gen_server <0.10226.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:08:38.598 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10227.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl",{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl",{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl",{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl",{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl",{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl",{line,226}]]}
2022-06-27 22:08:38.598 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:08:38.599 1 [error]
<0.10226.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10226.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:08:38.599 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:08:38.599 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:08:38.599 1 [error] <0.10227.1>@Undefined:Undefined:Undefined
gen_server <0.10227.1> terminated with reason: connection_down
2022-06-27 22:08:38.600 1 [error] <0.10227.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10227.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:08:38.602 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10226.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6752>,socket_mon =>
#Ref<0.155928093.3974365185.117005>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10227.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 22:08:38.602 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10227.1>,connection_down} 2022-06-27
22:08:44.855 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:08:48.602 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:08:48.668 1 [info] <0.10235.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:08:48.670 1 [info] <0.10235.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.10234.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:08:48.728 1 [error]
<0.10234.1>@http2_client:handle_settings:822 gen_server <0.10234.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 22:08:48.729 1 [error]  
<0.10234.1>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.10234.1> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 22:08:48.730 1 [error] <0.10235.1>@Undefined:Undefined:Undefined  
gen\_server <0.10235.1> terminated with reason: connection\_down  
2022-06-27 22:08:48.730 1 [error] <0.10235.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.10235.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:08:48.731 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.10235.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]]  
2022-06-27 22:08:48.731 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 22:08:48.731 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 22:08:48.731 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:08:48.732 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10234.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6753>,socket_mon =>
#Ref<0.155928093.3974365185.117243>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10235.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:08:48.733 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10235.1>,connection_down} 2022-06-27
22:08:54.997 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:08:58.734 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:08:58.880 1 [info] <0.10240.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:08:58.881 1 [info] <0.10240.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.10239.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:08:59.019 1 [error]
```



```
<0.10239.1>@http2_client:handle_settings:822 gen_server <0.10239.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:08:59.020 1 [error]
<0.10239.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10239.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:08:59.021 1 [error] <0.10240.1>@Undefined:Undefined:Undefined
gen_server <0.10240.1> terminated with reason: connection_down
2022-06-27 22:08:59.021 1 [error] <0.10240.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10240.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:08:59.022 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10240.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:08:59.022 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:08:59.022 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:08:59.022 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:08:59.024 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10239.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.13.130.184">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6754>,socket_mon =>
#Ref<0.155928093.3974365185.117506>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10240.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}}
2022-06-27 22:08:59.025 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10240.1>,connection_down} 2022-06-27
22:09:03.435 1 [info] <0.1662.0>@blockchain_worker:start_sync: {888,13} new
block sync starting with Pid: <0.10248.1>, Ref:
#Ref<0.155928093.3974365185.117696>, Peer: "/p2p/
11HfbGBxfA9VqZFEgHC9NVWf7tsYHp9njwaDiT9UDDP6sQrbmUM"
2022-06-27 22:09:05.154 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:09:07.118 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:09:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

```
2022-06-27 22:09:07.119 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:09:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:09:07.120 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6498,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:09:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:09:09.025 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:09:09.246 1 [info] <0.10252.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:09:09.247 1 [info] <0.10252.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.10251.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:09:09.464 1 [error]
<0.10251.1>@http2_client:handle_settings:822 gen_server <0.10251.1> terminated
with reason: no function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:09:09.468 1 [error]
<0.10251.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10251.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:09:09.468 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10252.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:09:09.469 1 [error] <0.10252.1>@Undefined:Undefined:Undefined
gen_server <0.10252.1> terminated with reason: connection_down
2022-06-27 22:09:09.469 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:09:09.470 1 [error] <0.10252.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10252.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:09:09.472 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:09:09.472 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:09:09.475 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10251.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6760>,socket_mon =>
```

```
#Ref<0.155928093.3974365185.117833>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10252.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 22:09:09.476 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10252.1>,connection_down} 2022-06-27
22:09:15.301 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:09:19.475 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:09:19.542 1 [info] <0.10256.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:09:19.545 1 [info] <0.10256.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.10255.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:09:19.601 1 [error] <0.10255.1>@http2_client:handle_settings:822
gen_server <0.10255.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:09:19.603 1 [error]
<0.10255.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10255.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:09:19.603 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10256.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:09:19.603 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:09:19.603 1 [error] <0.10256.1>@Undefined:Undefined:Undefined
gen_server <0.10256.1> terminated with reason: connection_down
2022-06-27 22:09:19.604 1 [error] <0.10256.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10256.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:09:19.604 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:09:19.604 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:09:19.605 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10255.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.72.143.228">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6761>,socket_mon =>
#Ref<0.155928093.3974365185.118081>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10256.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl",{line,226}}}]}}
2022-06-27 22:09:19.606 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10256.1>,connection_down} 2022-06-27
22:09:25.454 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:09:29.607 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:09:29.827 1 [info] <0.10264.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:09:29.828 1 [info] <0.10264.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.10263.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:09:30.044 1 [error]
<0.10263.1>@http2_client:handle_settings:822 gen_server <0.10263.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 22:09:30.046 1 [error]
<0.10263.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10263.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:09:30.046 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10264.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:09:30.046 1 [error] <0.10264.1>@Undefined:Undefined:Undefined
gen_server <0.10264.1> terminated with reason: connection_down
2022-06-27 22:09:30.046 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:09:30.046 1 [error] <0.10264.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10264.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:09:30.047 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:09:30.047 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:09:30.048 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10263.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```



```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6762>,socket_mon =>
#Ref<0.155928093.3974365185.118355>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10264.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 22:09:30.049 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10264.1>,connection_down}
2022-06-27 22:09:35.601 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:09:37.121 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:09:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:09:37.122 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:09:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:09:37.123 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6502,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:09:37 GMT">>,<<"txnb">> =>
```

```
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:09:40.050 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:09:40.127 1 [info] <0.10267.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:09:40.130 1 [info] <0.10267.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.10266.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:09:40.197 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10267.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:09:40.197 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:09:40.197 1 [error] <0.10266.1>@http2_client:handle_settings:822
gen_server <0.10266.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:09:40.198 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 22:09:40.198 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:09:40.198 1 [error]

<0.10266.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.10266.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 22:09:40.199 1 [error] <0.10267.1>@Undefined:Undefined:Undefined gen\_server <0.10267.1> terminated with reason: connection\_down

2022-06-27 22:09:40.199 1 [error] <0.10267.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.10267.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:09:40.201 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10266.1>,{function\_clause, [{http2\_client,handle\_settings,

[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,

{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,

{<<"content-type">>,<<"application/grpc+proto">>}},{54,

{<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/

validators">>}}],host => "52.30.111.82",last\_stream => 1,owner =>

<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},server\_window => 65528,socket => #Port<0.6763>,socket\_mon =>

#Ref<0.155928093.3973578754.174788>,state => open,stream\_count =>

1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>

1,owner => <0.10267.1>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>

gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],

{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},

{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},

{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 22:09:40.201 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10267.1>,connection_down} 2022-06-27
22:09:45.741 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:09:50.201 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:09:50.464 1 [info] <0.10271.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:09:50.465 1 [info] <0.10271.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.10270.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:09:50.731 1 [error] <0.10270.1>@http2_client:handle_settings:822
gen_server <0.10270.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:09:50.736 1 [error]
<0.10270.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10270.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:09:50.737 1 [error] <0.10271.1>@Undefined:Undefined:Undefined
gen_server <0.10271.1> terminated with reason: connection_down
2022-06-27 22:09:50.738 1 [error] <0.10271.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10271.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:09:50.739 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10271.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}],{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:09:50.739 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:09:50.740 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:09:50.740 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:09:50.744 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10270.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"18.228.115.118">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6764>,socket_mon =>
#Ref<0.155928093.3973578754.174859>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10271.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}}
2022-06-27 22:09:50.745 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10271.1>,connection_down} 2022-06-27
22:09:55.888 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:09:58.960 1 [notice]
<0.10157.1>@libp2p_yamux_session:handle_info:{189,5} Session liveness failure
2022-06-27 22:09:58.992 1 [info] <0.1657.0>@libp2p_relay_server:handle_info:
{172,5} Relay session with address "/p2p/
11t2omhmDJMa17Cag9a9W3iGhCKRMkhfKCRt2xtS4pbTzMtXkSv/p2p-circuit/p2p/
11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv" closed with
reason normal
2022-06-27 22:10:00.743 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:10:00.818 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,ehostunreach}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:10:00.818 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:10:00.820 1 [error] <0.10279.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10279.1> with 0 neighbours exited with reason:
ehostunreach in gen_server:init_it/6 line 407
2022-06-27 22:10:00.820 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10279.1>,ehostunreach}
2022-06-27 22:10:01.537 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
```

{error,retry}  
2022-06-27 22:10:04.065 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:10:06.051 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:10:06.591 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:10:07.128 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:10:07 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 22:10:07.129 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:10:07 GMT">>,<<"txnb">> => 0}  
2022-06-27 22:10:07.130 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=6506,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:10:07 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 22:10:08.616 1 [notice]  
<0.10100.1>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 22:10:08.839 1 [notice]  
<0.10282.1>@libp2p\_multistream\_client:negotiate\_handler:{14,13} Client  
handshake failed for "gossip/1.0.2": closed  
2022-06-27 22:10:08.842 1 [warning]  
<0.1644.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/44.238.150.237/tcp/443": closed  
2022-06-27 22:10:09.101 1 [info] <0.1657.0>@libp2p\_relay\_server:init\_relay:  
{242,13} initiating relay with peer "/p2p/  
11FqohExVFjTY3J1RXcM3GNAni1RNsv1mtX8fibRniyywVpUfQk"  
2022-06-27 22:10:09.300 1 [notice]  
<0.10109.1>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 22:10:09.312 1 [notice]  
<0.10285.1>@libp2p\_multistream\_client:negotiate\_handler:{14,13} Client  
handshake failed for "gossip/1.0.2": closed  
2022-06-27 22:10:09.313 1 [warning]  
<0.1646.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "

ip4/13.211.2.73/tcp/2154": closed  
2022-06-27 22:10:10.225 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{165,13} could not initiate relay with  
"/p2p/11FqohExVFjTY3J1RXcM3GNAni1RNsV1mtX8fibRniyywVpUfQk" [{"/  
ip4/212.125.27.32/tcp/44158",ehostunreach}]  
2022-06-27 22:10:10.821 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.125.32.225":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:10:10.894 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,ehostunreach}},  
[{"miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,719}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file,"proc\_lib.erl"},{line,226}]]]  
2022-06-27 22:10:10.895 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:10:10.897 1 [error] <0.10288.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.10288.1> with 0 neighbours exited with reason:  
ehostunreach in gen\_server:init\_it/6 line 407  
2022-06-27 22:10:10.897 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10288.1>,ehostunreach}  
2022-06-27 22:10:12.756 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:10:15.281 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:10:16.197 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:10:17.835 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:10:20.362 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}



2022-06-27 22:10:20.898 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.228.158.83":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 22:10:21.000 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send unary failed: error, {badmatch,{error,ehostunreach}},  
[{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{"line",719}]}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{"line",467}]}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{"line",221}]}],  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{"line",1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{"line",226}]}

2022-06-27 22:10:21.001 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:10:21.002 1 [error] <0.10289.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.10289.1> with 0 neighbours exited with reason:  
ehostunreach in gen\_server:init\_it/6 line 407

2022-06-27 22:10:21.002 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10289.1>,ehostunreach}

2022-06-27 22:10:22.905 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}

2022-06-27 22:10:25.435 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}

2022-06-27 22:10:26.253 1 [notice]  
<0.10138.1>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure

2022-06-27 22:10:26.261 1 [notice]  
<0.10291.1>@libp2p\_multistream\_client:negotiate\_handler:{14,13} Client handshake failed for "gossip/1.0.2": closed

2022-06-27 22:10:26.263 1 [warning]  
<0.1645.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/ip4/54.79.222.31/tcp/443": closed

2022-06-27 22:10:26.351 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:10:27.960 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}

2022-06-27 22:10:28.231 1 [notice]  
<0.10181.1>@libp2p\_yamux\_session:handle\_info:{189,5} Session liveness failure  
2022-06-27 22:10:29.021 1 [warning]  
<0.1644.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/54.207.212.161/tcp/2154": ehostunreach  
2022-06-27 22:10:29.419 1 [warning]  
<0.1646.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/  
ip4/13.237.69.79/tcp/443": ehostunreach  
2022-06-27 22:10:30.475 1 [info] <0.1657.0>@libp2p\_relay\_server:init\_relay:  
{242,13} initiating relay with peer "/p2p/  
115YKB87DQ6rsVbEBv7pB48fkg4gMcSq5VMHJcsTTPP78BgnFNP"  
2022-06-27 22:10:30.748 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{165,13} could not initiate relay with  
"/p2p/115YKB87DQ6rsVbEBv7pB48fkg4gMcSq5VMHJcsTTPP78BgnFNP" [{"/  
ip4/84.117.154.210/tcp/44158",ehostunreach}]  
2022-06-27 22:10:31.002 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.38.70.101":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:10:31.092 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,ehostunreach}},  
[{"miner\_poc\_grpc\_client\_statem",send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,719}]}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}],  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]}],  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]}]  
2022-06-27 22:10:31.092 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:10:31.093 1 [error] <0.10298.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.10298.1> with 0 neighbours exited with reason:  
ehostunreach in gen\_server:init\_it/6 line 407  
2022-06-27 22:10:31.094 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10298.1>,ehostunreach}  
2022-06-27 22:10:33.281 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay  
{error,retry}  
2022-06-27 22:10:33.432 1 [warning]  
<0.1639.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/

```
112itRG1swNpHXbXwoxakVkJxNRHdFLBAdy8tXsJd5kVFPZ7u7r": [{"/
ip4/178.0.178.21/tcp/44158",ehostunreach}]
2022-06-27 22:10:35.815 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 22:10:36.494 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:10:37.131 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:10:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:10:37.132 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:10:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:10:37.135 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6510,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:10:37 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:10:38.336 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 22:10:40.857 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 22:10:41.095 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:10:41.210 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,ehostunreach}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
```

```
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:10:41.210 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:10:41.212 1 [error] <0.10300.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10300.1> with 0 neighbours exited with reason:
ehostunreach in gen_server:init_it/6 line 407
2022-06-27 22:10:41.213 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10300.1>,ehostunreach}
2022-06-27 22:10:43.412 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 22:10:45.968 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 22:10:46.486 1 [warning]
<0.1645.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/
ip4/3.64.206.59/tcp/2154": ehostunreach
2022-06-27 22:10:46.641 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:10:48.503 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 22:10:50.912 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11UKiZVopUL5SXyWoZxZ7TK14NrfMVQEjQMVDx5w7zmZdbgDBKg" informed us
of our observed address "/ip4/80.77.186.186/tcp/25228"
2022-06-27 22:10:51.025 1 [warning]
<0.1657.0>@libp2p_relay_server:handle_info:{168,13} could not initiate relay
{error,retry}
2022-06-27 22:10:51.212 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:10:51.254 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11UCbsgywnxzfXdjDxsHcUqwfPgjt9nSt9m3Kt3zQH4Phcz7DwT" informed us of
our observed address "/ip4/80.77.186.186/tcp/62656"
2022-06-27 22:10:51.432 1 [info] <0.10335.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:10:51.433 1 [info] <0.10335.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.10333.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:10:51.652 1 [error] <0.10333.1>@http2_client:handle_settings:822
gen_server <0.10333.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:10:51.656 1 [error] <0.10333.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10333.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:10:51.658 1 [error] <0.10335.1>@Undefined:Undefined:Undefined
gen_server <0.10335.1> terminated with reason: connection_down
2022-06-27 22:10:51.659 1 [error] <0.10335.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10335.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:10:51.659 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10335.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:10:51.659 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 22:10:51.660 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 22:10:51.660 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:10:51.661 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10333.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "35.82.239.134",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6797>,socket\_mon => #Ref<0.155928093.3974365185.121149>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10335.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:10:51.662 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10335.1>,connection\_down}

2022-06-27 22:10:53.542 1 [warning]  
<0.1657.0>@libp2p\_relay\_server:handle\_info:{168,13} could not initiate relay {error,retry}

2022-06-27 22:10:56.053 1 [info] <0.1657.0>@libp2p\_relay\_server:init\_relay: {242,13} initiating relay with peer "/p2p/11m8MLX9Ly3THmibZphbrKGA9hw68rtNoo6TpY6rc96wJjzsv3r"

2022-06-27 22:10:56.791 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:10:56.962 1 [info] <0.1657.0>@libp2p\_relay\_server:handle\_info:{162,13} relay started successfully with "/p2p/11m8MLX9Ly3THmibZphbrKGA9hw68rtNoo6TpY6rc96wJzsv3r"

2022-06-27 22:10:57.060 1 [info] <0.1657.0>@libp2p\_relay\_server:handle\_call:{111,5} inserting new listener blockchain\_swarm, "/p2p/11m8MLX9Ly3THmibZphbrKGA9hw68rtNoo6TpY6rc96wJzsv3r/p2p-circuit/p2p/11TccW4t5o8VEfhHPbRg5BegEYvxTQVNVidMW72SydYmoiT2VXv", <0.10347.1>

2022-06-27 22:10:57.088 1 [info] <0.1631.0>@libp2p\_transport\_tcp:record\_observed\_addr:{1060,21} peer "/p2p/11m8MLX9Ly3THmibZphbrKGA9hw68rtNoo6TpY6rc96wJzsv3r" informed us of our observed address "/ip4/80.77.186.186/tcp/26949"

2022-06-27 22:11:01.663 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.89.130.114":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 22:11:01.884 1 [info] <0.10354.1>@grpc\_client\_stream\_custom:init:{131,9} init stream for RPC validators and type unary

2022-06-27 22:11:01.887 1 [info] <0.10354.1>@grpc\_client\_stream\_custom:init:{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"52.89.130.114">>,http\_connection => <0.10353.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 22:11:02.096 1 [error] <0.10353.1>@http2\_client:handle\_settings:822 gen\_server <0.10353.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 22:11:02.098 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:{283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.10354.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

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[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:11:02.098 1 [error] <0.10353.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10353.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:11:02.098 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:11:02.098 1 [error] <0.10354.1>@Undefined:Undefined:Undefined
gen_server <0.10354.1> terminated with reason: connection_down
2022-06-27 22:11:02.098 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:11:02.098 1 [error] <0.10354.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10354.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:11:02.098 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:11:02.099 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10353.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.89.130.114">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```



```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6803>,socket_mon =>
#Ref<0.155928093.3973578754.174924>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10354.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:11:02.100 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10354.1>,connection_down}
2022-06-27 22:11:06.937 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:11:07.132 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:11:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:11:07.133 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:11:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:11:07.134 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6514,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:11:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:11:07.259 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11CGkvs8o4PCV3bQttrMSyaQMj3nBpVwtqSEgorYGR2iyYMFkd8" informed us of
our observed address "/ip4/80.77.186.186/tcp/46748"
2022-06-27 22:11:12.100 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:11:12.419 1 [info] <0.10373.1>@grpc_client_stream_custom:init:
```

```
{131,9} init stream for RPC validators and type unary
2022-06-27 22:11:12.420 1 [info] <0.10373.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.10372.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:11:12.734 1 [error] <0.10372.1>@http2_client:handle_settings:822
gen_server <0.10372.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:11:12.736 1 [error] <0.10372.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10372.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:11:12.736 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10373.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:11:12.737 1 [error] <0.10373.1>@Undefined:Undefined:Undefined
gen_server <0.10373.1> terminated with reason: connection_down
2022-06-27 22:11:12.737 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 22:11:12.737 1 [error] <0.10373.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.10373.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:11:12.737 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 22:11:12.737 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 22:11:12.739 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10372.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{53,  
{<<":authority">>,<<"3.104.32.11">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}},host => "3.104.32.11",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6805>,socket\_mon =>  
#Ref<0.155928093.3974365185.122126>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.10373.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}

2022-06-27 22:11:12.739 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10373.1>,connection\_down}

2022-06-27 22:11:17.071 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5}  
PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:11:22.740 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:11:22.996 1 [info] <0.10377.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:11:22.997 1 [info] <0.10377.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2_client,host => <<"3.39.165.144">>,http_connection => <0.10376.1>,scheme => <<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input => gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway_resp_v1_pb,output_stream => false,package => [],queue => {[[],[]]},response_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod: miner_poc_grpc_client_handler
2022-06-27 22:11:23.249 1 [error] <0.10376.1>@http2_client:handle_settings:822 gen_server <0.10376.1> terminated with reason: no function clause matching http2_client:handle_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:11:23.250 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down, {gen_server,call,[<0.10377.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3, [{file,"gen_server.erl"},{line,247}]}, {grpc_client_stream_custom,process_response,2, [{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6, [{file,"grpc_client_custom.erl"},{line,278}]}, {miner_poc_grpc_client_statem,send_grpc_unary_req,4, [{file,"miner_poc_grpc_client_statem.erl"},{line,721}]}, {miner_poc_grpc_client_statem,find_validator,0, [{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}, {miner_poc_grpc_client_statem,setup,3, [{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}, {gen_statem,loop_state_callback,11, [{file,"gen_statem.erl"},{line,1203}]}, {proc_lib,init_p_do_apply,3, [{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:11:23.250 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New Connection, send unary result: {error,#{error_type => client,status_message => <<"stream create failed">>}}
2022-06-27 22:11:23.251 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc client error response
2022-06-27 22:11:23.251 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:11:23.251 1 [error] <0.10376.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10376.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:11:23.251 1 [error] <0.10377.1>@Undefined:Undefined:Undefined
gen_server <0.10377.1> terminated with reason: connection_down
2022-06-27 22:11:23.252 1 [error] <0.10377.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10377.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:11:23.253 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10376.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6806>,socket_mon =>
#Ref<0.155928093.3973578754.174970>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10377.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:11:23.254 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.10377.1>,connection_down} 2022-06-27
22:11:27.214 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:11:33.254 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:11:33.319 1 [info] <0.10380.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:11:33.320 1 [info] <0.10380.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.10379.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:11:33.378 1 [error] <0.10379.1>@http2_client:handle_settings:822
gen_server <0.10379.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:11:33.379 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10380.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:11:33.379 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 22:11:33.379 1 [error] <0.10379.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10379.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:11:33.380 1 [error] <0.10380.1>@Undefined:Undefined:Undefined
gen_server <0.10380.1> terminated with reason: connection_down
2022-06-27 22:11:33.380 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:11:33.380 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:11:33.380 1 [error] <0.10380.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10380.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:11:33.381 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10379.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],}],encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6807>,socket_mon =>
#Ref<0.155928093.3973578754.175003>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10380.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 22:11:33.382 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10380.1>,connection_down}
2022-06-27 22:11:33.741 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 2,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAGe/
1upACaRAKu+tvXKO4kfYZr16hvXaocts9p6XYJRGH8eO2BJqvKrZQaNYzjlqQ==">>
,<<"datr">> => <<"SF12BW125">>,<<"foff">> => -153,<<"freq">> =>
868.5,<<"jver">> => 1,<<"lsnr">> => -19.8,<<"mid">> => 0,<<"modu">> =>
<<"LORA">>,<<"rfch">> => 1,<<"rssi">> => -108,<<"rssi">> => -127,<<"size">>
=> 52,<<"stat">> => 1,<<"tmst">> => 2164840422]]} from
12291671073248440251 on 35152
2022-06-27 22:11:37.130 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:11:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:11:37.131 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:11:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:11:37.133 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6517,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:11:37 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:11:37.361 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:11:43.383 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:11:43.645 1 [info] <0.10383.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:11:43.647 1 [info] <0.10383.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.10382.1>,scheme =>
```



```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:11:43.914 1 [error] <0.10382.1>@http2_client:handle_settings:822
gen_server <0.10382.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:11:43.916 1 [error] <0.10382.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10382.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:11:43.917 1 [error] <0.10383.1>@Undefined:Undefined:Undefined
gen_server <0.10383.1> terminated with reason: connection_down
2022-06-27 22:11:43.917 1 [error] <0.10383.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10383.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:11:43.919 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10383.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:11:43.919 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:11:43.920 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 22:11:43.920 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:11:43.922 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10382.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}]}],host => "3.39.165.144",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6808>,socket\_mon => #Ref<0.155928093.3974365185.122809>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10383.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}

2022-06-27 22:11:43.923 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10383.1>,connection\_down}

2022-06-27 22:11:47.501 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:11:53.923 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.211.55.217":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 22:11:54.241 1 [info] <0.10388.1>@grpc\_client\_stream\_custom:init:

```
{131,9} init stream for RPC validators and type unary
2022-06-27 22:11:54.242 1 [info] <0.10388.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.10387.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:11:54.557 1 [error] <0.10387.1>@http2_client:handle_settings:822
gen_server <0.10387.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:11:54.558 1 [error] <0.10387.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10387.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:11:54.561 1 [error] <0.10388.1>@Undefined:Undefined:Undefined
gen_server <0.10388.1> terminated with reason: connection_down
2022-06-27 22:11:54.561 1 [error] <0.10388.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10388.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:11:54.561 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10388.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:11:54.562 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 22:11:54.562 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 22:11:54.563 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:11:54.565 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10387.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"13.211.55.217">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "13.211.55.217",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6809>,socket\_mon => #Ref<0.155928093.3973316611.231283>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10388.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:11:54.566 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10388.1>,connection\_down}

2022-06-27 22:11:57.647 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

```
2022-06-27 22:12:04.565 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:12:04.715 1 [info] <0.10399.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:12:04.717 1 [info] <0.10399.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.10398.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:12:04.856 1 [error]
<0.10398.1>@http2_client:handle_settings:822 gen_server <0.10398.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:12:04.857 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10399.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:12:04.858 1 [error]
<0.10398.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10398.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:12:04.858 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:12:04.858 1 [error] <0.10399.1>@Undefined:Undefined:Undefined
gen_server <0.10399.1> terminated with reason: connection_down
2022-06-27 22:12:04.858 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:12:04.858 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:12:04.858 1 [error] <0.10399.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10399.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:12:04.859 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10398.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6810>,socket_mon =>
#Ref<0.155928093.3974365185.123214>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10399.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 22:12:04.860 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10399.1>,connection_down}
2022-06-27 22:12:07.138 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:12:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:12:07.139 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:12:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:12:07.141 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6521,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:12:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:12:07.802 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:12:14.861 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:12:15.007 1 [info] <0.10407.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:12:15.009 1 [info] <0.10407.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.10406.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:12:15.146 1 [error] <0.10406.1>@http2_client:handle_settings:822
gen_server <0.10406.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:12:15.147 1 [error] <0.10406.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10406.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:12:15.148 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10407.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:12:15.148 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:12:15.148 1 [error] <0.10407.1>@Undefined:Undefined:Undefined
gen_server <0.10407.1> terminated with reason: connection_down
2022-06-27 22:12:15.148 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:12:15.148 1 [error] <0.10407.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10407.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:12:15.148 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:12:15.150 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10406.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```



```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6811>,socket_mon =>
#Ref<0.155928093.3973316611.231312>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10407.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:12:15.151 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10407.1>,connection_down} 2022-06-27
22:12:17.941 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:12:21.717 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1640.0>
2022-06-27 22:12:25.151 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:12:25.416 1 [info] <0.10411.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:12:25.418 1 [info] <0.10411.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.10410.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => [{[],[]}],response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:12:25.674 1 [error] <0.10410.1>@http2_client:handle_settings:822
gen_server <0.10410.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:12:25.676 1 [error] <0.10410.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10410.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:12:25.676 1 [error] <0.10411.1>@Undefined:Undefined:Undefined
gen_server <0.10411.1> terminated with reason: connection_down
2022-06-27 22:12:25.677 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10411.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:12:25.677 1 [error] <0.10411.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10411.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:12:25.677 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:12:25.678 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:12:25.678 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

2022-06-27 22:12:25.679 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10410.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6812>,socket_mon =>
#Ref<0.155928093.3974365185.123506>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10411.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 22:12:25.679 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10411.1>,connection_down}
```

2022-06-27 22:12:28.084 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 22:12:35.680 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
```

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 22:12:35.901 1 [info] <0.10414.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 22:12:35.902 1 [info] <0.10414.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"54.251.77.229">>,http_connection => <0.10413.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:12:36.119 1 [error] <0.10413.1>@http2_client:handle_settings:822
gen_server <0.10413.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:12:36.120 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10414.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:12:36.120 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:12:36.121 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:12:36.121 1 [error] <0.10413.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10413.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:12:36.121 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 22:12:36.121 1 [error] <0.10414.1>@Undefined:Undefined:Undefined
gen_server <0.10414.1> terminated with reason: connection_down
2022-06-27 22:12:36.121 1 [error] <0.10414.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10414.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:12:36.122 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10413.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6813>,socket_mon =>
#Ref<0.155928093.3974365185.123652>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10414.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:12:36.123 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10414.1>,connection_down} 2022-06-27
22:12:37.129 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:12:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:12:37.129 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
```

```
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:12:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:12:37.130 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6525,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:12:37 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:12:38.221 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:12:46.124 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:12:46.385 1 [info] <0.10417.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:12:46.386 1 [info] <0.10417.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.10416.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:12:46.643 1 [error] <0.10416.1>@http2_client:handle_settings:822
gen_server <0.10416.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:12:46.644 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10417.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:12:46.645 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:12:46.646 1 [error] <0.10416.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10416.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:12:46.647 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:12:46.647 1 [error] <0.10417.1>@Undefined:Undefined:Undefined
gen_server <0.10417.1> terminated with reason: connection_down
2022-06-27 22:12:46.647 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:12:46.647 1 [error] <0.10417.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10417.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:12:46.651 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10416.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.39.165.144">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6814>,socket_mon =>
#Ref<0.155928093.3974365185.123781>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10417.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 22:12:46.652 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10417.1>,connection_down}
2022-06-27 22:12:48.384 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:12:56.650 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:12:56.726 1 [info] <0.10422.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:12:56.727 1 [info] <0.10422.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.10420.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:12:56.796 1 [error] <0.10420.1>@http2_client:handle_settings:822
gen_server <0.10420.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:12:56.798 1 [error] <0.10420.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10420.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```



```
2022-06-27 22:12:56.799 1 [error] <0.10422.1>@Undefined:Undefined:Undefined
gen_server <0.10422.1> terminated with reason: connection_down
2022-06-27 22:12:56.800 1 [error] <0.10422.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10422.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:12:56.801 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10422.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:12:56.801 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:12:56.803 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:12:56.803 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:12:56.806 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10420.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.210.14.128">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.210.14.128",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6815>,socket_mon =>
#Ref<0.155928093.3974365185.123931>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10422.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:12:56.806 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10422.1>,connection_down}
2022-06-27 22:12:58.531 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:13:06.806 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:13:06.951 1 [info] <0.10433.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:13:06.952 1 [info] <0.10433.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.10432.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:13:07.090 1 [error] <0.10432.1>@http2_client:handle_settings:822
gen_server <0.10432.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:13:07.091 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10433.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:13:07.091 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:13:07.091 1 [error] <0.10432.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10432.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:13:07.091 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:13:07.092 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:13:07.093 1 [error] <0.10433.1>@Undefined:Undefined:Undefined
gen_server <0.10433.1> terminated with reason: connection_down
2022-06-27 22:13:07.093 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10432.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
```

```
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6816>,socket_mon =>
#Ref<0.155928093.3974365185.124210>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10433.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:13:07.093 1 [error] <0.10433.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10433.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:13:07.093 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10433.1>,connection_down}
2022-06-27 22:13:07.134 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:13:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:13:07.135 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:13:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:13:07.136 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6529,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:13:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:13:08.671 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:13:17.094 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

unary request via new connection to ip "54.251.77.229":

```
{gateway_validators_req_v1_pb,1}
2022-06-27 22:13:17.317 1 [info] <0.10437.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:13:17.320 1 [info] <0.10437.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.10436.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:13:17.533 1 [error] <0.10436.1>@http2_client:handle_settings:822
gen_server <0.10436.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:13:17.535 1 [error] <0.10436.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10436.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:13:17.535 1 [error] <0.10437.1>@Undefined:Undefined:Undefined
gen_server <0.10437.1> terminated with reason: connection_down
2022-06-27 22:13:17.537 1 [error] <0.10437.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10437.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:13:17.539 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10437.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:13:17.539 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:13:17.541 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:13:17.542 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:13:17.544 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10436.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6817>,socket_mon =>
#Ref<0.155928093.3974365185.124439>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10437.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}}
2022-06-27 22:13:17.544 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10437.1>,connection_down} 2022-06-27
```

```
22:13:18.807 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:13:27.544 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:13:27.764 1 [info] <0.10445.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:13:27.765 1 [info] <0.10445.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.10444.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:13:27.989 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10445.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:13:27.989 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:13:27.989 1 [error] <0.10444.1>@http2_client:handle_settings:822
gen_server <0.10444.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 22:13:27.989 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 22:13:27.989 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:13:27.990 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10444.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{55, {<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "13.215.75.202",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6818>,socket\_mon => #Ref<0.155928093.3974365185.124722>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10445.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:13:27.991 1 [error] <0.10444.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.10444.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 22:13:27.991 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10445.1>,connection\_down}



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2022-06-27 22:13:27.991 1 [error] <0.10445.1>@Undefined:Undefined:Undefined
gen_server <0.10445.1> terminated with reason: connection_down
2022-06-27 22:13:27.992 1 [error] <0.10445.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10445.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:13:28.954 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:13:37.137 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:13:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:13:37.138 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:13:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:13:37.139 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6533,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:13:37 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:13:37.992 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:13:38.065 1 [info] <0.10448.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:13:38.066 1 [info] <0.10448.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.10447.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:13:38.137 1 [error] <0.10447.1>@http2_client:handle_settings:822
gen_server <0.10447.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

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<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 22:13:38.141 1 [error] <0.10447.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10447.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 22:13:38.142 1 [error] <0.10448.1>@Undefined:Undefined:Undefined
gen_server <0.10448.1> terminated with reason: connection_down
2022-06-27 22:13:38.142 1 [error] <0.10448.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10448.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:13:38.143 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10448.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:13:38.143 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:13:38.145 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:13:38.145 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:13:38.148 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10447.1>,{function_clause,
[{http2_client,handle_settings,
[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6819>,socket_mon =>
#Ref<0.155928093.3974365185.124946>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10448.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 22:13:38.149 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10448.1>,connection_down}
2022-06-27 22:13:39.108 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:13:48.147 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:13:49.234 1 [info] <0.10451.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:13:49.235 1 [info] <0.10451.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.10450.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 22:13:49.244 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:13:49.293 1 [error]
<0.10450.1>@http2_client:handle_settings:822 gen_server <0.10450.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:13:49.294 1 [error]
<0.10450.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10450.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:13:49.296 1 [error] <0.10451.1>@Undefined:Undefined:Undefined
gen_server <0.10451.1> terminated with reason: connection_down
2022-06-27 22:13:49.296 1 [error] <0.10451.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10451.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:13:49.296 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10451.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:13:49.297 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:13:49.297 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 22:13:49.297 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:13:49.299 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10450.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {53, {<<":authority">>,<<"3.70.55.231">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.70.55.231",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6820>,socket\_mon => #Ref<0.155928093.3973578754.176032>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10451.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}]},timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:13:49.299 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10451.1>,connection\_down} 2022-06-27 22:13:59.300 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.39.165.144":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 22:13:59.402 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:13:59.563 1 [info] <0.10454.1>@grpc\_client\_stream\_custom:init:

```
{131,9} init stream for RPC validators and type unary
2022-06-27 22:13:59.564 1 [info] <0.10454.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.10453.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:13:59.820 1 [error]
<0.10453.1>@http2_client:handle_settings:822 gen_server <0.10453.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:13:59.822 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10454.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:13:59.822 1 [error]
<0.10453.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10453.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:13:59.822 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

2022-06-27 22:13:59.822 1 [error] <0.10454.1>@Undefined:Undefined:Undefined  
gen\_server <0.10454.1> terminated with reason: connection\_down  
2022-06-27 22:13:59.823 1 [error] <0.10454.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.10454.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:13:59.823 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 22:13:59.824 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:13:59.825 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10453.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.39.165.144">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}]}},host => "3.39.165.144",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6821>,socket\_mon =>  
#Ref<0.155928093.3974365185.125312>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.10454.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]  
2022-06-27 22:13:59.826 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10454.1>,connection\_down}  
2022-06-27 22:14:07.140 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:14:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:14:07.140 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:14:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:14:07.142 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6537,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:14:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:14:09.545 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:14:09.826 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:14:10.047 1 [info] <0.10467.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:14:10.048 1 [info] <0.10467.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.10466.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:14:10.264 1 [error] <0.10466.1>@http2_client:handle_settings:822
gen_server <0.10466.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:14:10.264 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10467.1>,{rcv,10000},infinity]}} , Stack:[{gen_server,call,3,
```



```
[{file,"gen_server.erl"},{line,247}]],
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:14:10.265 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:14:10.265 1 [error] <0.10466.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10466.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:14:10.265 1 [error] <0.10467.1>@Undefined:Undefined:Undefined
gen_server <0.10467.1> terminated with reason: connection_down
2022-06-27 22:14:10.265 1 [error] <0.10467.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10467.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:14:10.266 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:14:10.266 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:14:10.268 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10466.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6822>,socket_mon =>
#Ref<0.155928093.3973316611.231375>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10467.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:14:10.268 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10467.1>,connection_down} 2022-06-27
22:14:19.684 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:14:20.268 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:14:20.529 1 [info] <0.10471.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:14:20.531 1 [info] <0.10471.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.10470.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:14:20.785 1 [error] <0.10470.1>@http2_client:handle_settings:822
gen_server <0.10470.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:14:20.786 1 [error] <0.10470.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10470.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:14:20.787 1 [error] <0.10471.1>@Undefined:Undefined:Undefined
gen_server <0.10471.1> terminated with reason: connection_down
2022-06-27 22:14:20.787 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10471.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:14:20.787 1 [error] <0.10471.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10471.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:14:20.787 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:14:20.788 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:14:20.788 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:14:20.789 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10470.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6823>,socket_mon =>
#Ref<0.155928093.3974365185.125686>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10471.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:14:20.790 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10471.1>,connection_down} 2022-06-27
22:14:29.827 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:14:30.791 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:14:30.937 1 [info] <0.10478.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:14:30.938 1 [info] <0.10478.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.10477.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:14:31.077 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10478.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:14:31.077 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:14:31.077 1 [error] <0.10477.1>@http2_client:handle_settings:822
gen_server <0.10477.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:14:31.078 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:14:31.078 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:14:31.078 1 [error] <0.10477.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10477.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:14:31.078 1 [error] <0.10478.1>@Undefined:Undefined:Undefined
gen_server <0.10478.1> terminated with reason: connection_down
2022-06-27 22:14:31.078 1 [error] <0.10478.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10478.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:14:31.080 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10477.1>,{function_clause,
```

```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6824>,socket_mon =>
#Ref<0.155928093.3974365185.125889>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10478.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:14:31.081 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10478.1>,connection_down} 2022-06-27
22:14:37.138 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:14:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:14:37.139 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:14:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:14:37.140 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6541,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:14:37 GMT">>,<<"txnb">> => 0}}
```

```
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:14:39.974 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:14:41.081 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:14:41.232 1 [info] <0.10481.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:14:41.233 1 [info] <0.10481.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.10480.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:14:41.378 1 [error] <0.10480.1>@http2_client:handle_settings:822
gen_server <0.10480.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:14:41.379 1 [error] <0.10480.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10480.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:14:41.379 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10481.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:14:41.380 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:14:41.380 1 [error] <0.10481.1>@Undefined:Undefined:Undefined
gen_server <0.10481.1> terminated with reason: connection_down
2022-06-27 22:14:41.380 1 [error] <0.10481.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10481.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:14:41.380 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:14:41.381 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:14:41.382 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10480.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{54,
{<<":authority">>,<<"3.137.92.200">>}}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6825>,socket_mon =>
#Ref<0.155928093.3973316611.231415>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10481.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]]],
```



```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 22:14:41.382 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10481.1>,connection_down} 2022-06-27
22:14:50.135 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:14:51.383 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:14:51.459 1 [info] <0.10484.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:14:51.461 1 [info] <0.10484.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.10483.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:14:51.860 1 [error] <0.10483.1>@http2_client:handle_settings:822
gen_server <0.10483.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:14:51.861 1 [error] <0.10483.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10483.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:14:51.862 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10484.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
{file,"miner_poc_grpc_client_statem.erl",{line,721}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}
2022-06-27 22:14:51.863 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:14:51.863 1 [error] <0.10484.1>@Undefined:Undefined:Undefined
gen_server <0.10484.1> terminated with reason: connection_down
2022-06-27 22:14:51.864 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:14:51.864 1 [error] <0.10484.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10484.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:14:51.864 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:14:51.865 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10483.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6826>,socket_mon =>
#Ref<0.155928093.3973578754.176687>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10484.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 22:14:51.866 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10484.1>,connection_down}
2022-06-27 22:15:00.284 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:15:01.866 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:15:02.124 1 [info] <0.10487.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:15:02.125 1 [info] <0.10487.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.10486.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:15:02.379 1 [error]
<0.10486.1>@http2_client:handle_settings:822 gen_server <0.10486.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:15:02.381 1 [error] <0.10486.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10486.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:15:02.382 1 [error] <0.10487.1>@Undefined:Undefined:Undefined
gen_server <0.10487.1> terminated with reason: connection_down
```

```
2022-06-27 22:15:02.383 1 [error] <0.10487.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10487.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:15:02.384 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10487.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:15:02.385 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:15:02.385 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:15:02.385 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:15:02.387 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10486.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6827>,socket_mon =>
#Ref<0.155928093.3974365185.126273>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10487.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:15:02.388 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10487.1>,connection_down}
2022-06-27 22:15:05.319 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 6,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAEfwpk3ALijAPm1vX3PIRIBP/
kbDRcDVNB6zan1NYGjydCOjldXdMUvclQTx6wCdg==">>,<<"datr">> =>
<<"SF12BW125">>,<<"foff">> => -410,<<"freq">> => 867.7,<<"jver">> =>
1,<<"lsnr">> => 2.5,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">> =>
0,<<"rssi">> => -104,<<"rssi">> => -105,<<"size">> => 52,<<"stat">> =>
1,<<"tmst">> => 2376417927]}} from 12291671073248440251 on 35152
2022-06-27 22:15:07.145 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:15:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:15:07.145 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:15:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:15:07.147 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6545,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:15:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:15:10.431 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 22:15:12.388 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:15:12.651 1 [info] <0.10492.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:15:12.652 1 [info] <0.10492.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.10491.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:15:12.908 1 [error] <0.10491.1>@http2_client:handle_settings:822
gen_server <0.10491.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:15:12.909 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10492.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:15:12.909 1 [error] <0.10491.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10491.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:15:12.909 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 22:15:12.909 1 [error] <0.10492.1>@Undefined:Undefined:Undefined gen\_server <0.10492.1> terminated with reason: connection\_down

2022-06-27 22:15:12.910 1 [error] <0.10492.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.10492.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:15:12.911 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 22:15:12.912 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:15:12.913 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10491.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {54, {<<":authority">>,<<"3.39.165.144">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.39.165.144",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6828>,socket\_mon => #Ref<0.155928093.3974365185.126416>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10492.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}

2022-06-27 22:15:12.913 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10492.1>,connection_down}
2022-06-27 22:15:19.400 1 [info] <0.1636.0>@libp2p_peerbook:notify_peers:
{726,5} gossiping out 108 notify peers
2022-06-27 22:15:20.591 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:15:22.915 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:15:23.135 1 [info] <0.10505.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:15:23.136 1 [info] <0.10505.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.10504.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:15:23.350 1 [error]
<0.10504.1>@http2_client:handle_settings:822 gen_server <0.10504.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:15:23.351 1 [error] <0.10504.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10504.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:15:23.351 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10505.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```



```
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 22:15:23.352 1 [error] <0.10505.1>@Undefined:Undefined:Undefined
gen_server <0.10505.1> terminated with reason: connection_down
2022-06-27 22:15:23.352 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:15:23.352 1 [error] <0.10505.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10505.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:15:23.352 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:15:23.352 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:15:23.353 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10504.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{56,
{<<":authority">>,<<"52.220.227.216">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6829>,socket_mon =>
#Ref<0.155928093.3973578754.177058>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10505.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl"},{line,226}}}}}}
2022-06-27 22:15:23.354 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10505.1>,connection_down}
2022-06-27 22:15:24.283 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 6,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAFdtSOxAcCGAEIn8k6v1f6AIV41owFTt+bZI0xx4ZBhmYIYeBSmElabGhX
fMts4AA==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> => -411,<<"freq">>
=> 867.7,<<"jver">> => 1,<<"lsnr">> => 3.0,<<"mid">> => 0,<<"modu">> =>
<<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -101,<<"rssi">> => -102,<<"size">>
=> 52,<<"stat">> => 1,<<"tmst">> => 2395380490}} from
12291671073248440251 on 35152
2022-06-27 22:15:30.727 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:15:33.355 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:15:37.145 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 2,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:15:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:15:37.146 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 2,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:15:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:15:37.147 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6549,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 2,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:15:37 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:15:40.871 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833  
2022-06-27 22:15:51.012 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:16:01.164 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:16:03.360 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}]],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}]],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}]],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}]],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}]]]  
2022-06-27 22:16:03.360 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:16:03.361 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10507.1>,timeout}  
2022-06-27 22:16:03.361 1 [error] <0.10507.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.10507.1> with 0 neighbours exited with reason:  
timeout in gen\_server:init\_it/6 line 407  
2022-06-27 22:16:07.142 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:16:07 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 22:16:07.143 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:16:07 GMT">>,<<"txnb">> => 0}  
2022-06-27 22:16:07.145 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=6553,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:16:07 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 22:16:11.315 1 [info]

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<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:16:13.362 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:16:13.574 1 [info] <0.10510.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:16:13.575 1 [info] <0.10510.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.10509.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:16:13.783 1 [error] <0.10509.1>@http2_client:handle_settings:822
gen_server <0.10509.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:16:13.784 1 [error] <0.10509.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10509.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:16:13.784 1 [error] <0.10510.1>@Undefined:Undefined:Undefined
gen_server <0.10510.1> terminated with reason: connection_down
2022-06-27 22:16:13.785 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10510.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

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{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 22:16:13.785 1 [error] <0.10510.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10510.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:16:13.785 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:16:13.785 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:16:13.786 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:16:13.787 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10509.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6831>,socket_mon =>
#Ref<0.155928093.3974365185.127277>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10510.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
```

```
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}]}
```

2022-06-27 22:16:13.787 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10510.1>,connection\_down} 2022-06-27  
22:16:21.451 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5}  
PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:16:23.787 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.70.55.231":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:16:23.854 1 [info] <0.10516.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 22:16:23.856 1 [info] <0.10516.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"3.70.55.231">>,http\_connection => <0.10515.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 22:16:23.920 1 [error] <0.10515.1>@http2\_client:handle\_settings:822  
gen\_server <0.10515.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 22:16:23.925 1 [error] <0.10515.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.10515.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 22:16:23.925 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.10516.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[file,"gen\_server.erl"],{line,247}}],  
{grpc\_client\_stream\_custom,process\_response,2,  
[file,"grpc\_client\_stream\_custom.erl"],{line,418}}],{grpc\_client\_custom,unary,6,  
[file,"grpc\_client\_custom.erl"],{line,278}}],  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,721}}],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,

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[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:16:23.925 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:16:23.925 1 [error] <0.10516.1>@Undefined:Undefined:Undefined
gen_server <0.10516.1> terminated with reason: connection_down
2022-06-27 22:16:23.926 1 [error] <0.10516.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10516.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:16:23.926 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:16:23.927 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:16:23.928 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10515.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6832>,socket_mon =>
#Ref<0.155928093.3974365185.127404>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10516.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:16:23.929 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10516.1>,connection_down}
2022-06-27 22:16:31.597 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:16:33.930 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:16:34.004 1 [info] <0.10531.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:16:34.005 1 [info] <0.10531.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.10530.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:16:34.073 1 [error] <0.10530.1>@http2_client:handle_settings:822
gen_server <0.10530.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:16:34.073 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10531.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]]},
```



```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:16:34.074 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:16:34.074 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:16:34.074 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:16:34.075 1 [error] <0.10530.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10530.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:16:34.075 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10530.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"52.30.1.39">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6833>,socket_mon =>
#Ref<0.155928093.3973578754.177969>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10531.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:16:34.075 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10531.1>,connection_down}
2022-06-27 22:16:34.075 1 [error] <0.10531.1>@Undefined:Undefined:Undefined
gen_server <0.10531.1> terminated with reason: connection_down
2022-06-27 22:16:34.076 1 [error] <0.10531.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10531.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:16:37.152 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:16:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:16:37.153 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:16:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:16:37.155 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6557,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:16:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:16:41.741 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:16:44.077 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:16:44.297 1 [info] <0.10534.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:16:44.298 1 [info] <0.10534.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.10533.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:16:44.514 1 [error] <0.10533.1>@http2_client:handle_settings:822
gen_server <0.10533.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:16:44.514 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10534.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:16:44.515 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:16:44.515 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:16:44.515 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:16:44.515 1 [error] <0.10533.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10533.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:16:44.516 1 [error] <0.10534.1>@Undefined:Undefined:Undefined
gen_server <0.10534.1> terminated with reason: connection_down
```

```
2022-06-27 22:16:44.516 1 [error] <0.10534.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10534.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:16:44.517 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10533.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6834>,socket_mon =>
#Ref<0.155928093.3973578754.178112>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10534.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:16:44.517 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10534.1>,connection_down}
2022-06-27 22:16:51.881 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:16:54.517 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:16:54.738 1 [info] <0.10537.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 22:16:54.739 1 [info] <0.10537.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.10536.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:16:54.955 1 [error]
<0.10536.1>@http2_client:handle_settings:822 gen_server <0.10536.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:16:54.956 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10537.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:16:54.956 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:16:54.957 1 [error]
<0.10536.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10536.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:16:54.957 1 [error] <0.10537.1>@Undefined:Undefined:Undefined
```

gen\_server <0.10537.1> terminated with reason: connection\_down  
2022-06-27 22:16:54.957 1 [error] <0.10537.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.10537.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:16:54.958 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 22:16:54.958 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:16:54.960 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10536.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"13.215.75.202">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "13.215.75.202",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6835>,socket\_mon =>  
#Ref<0.155928093.3974365185.127837>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.10537.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}}  
2022-06-27 22:16:54.960 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10537.1>,connection\_down} 2022-06-27  
22:17:02.025 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5}  
PULL\_DATA from 12291671073248440251 on 56833

```
2022-06-27 22:17:04.960 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:17:05.280 1 [info] <0.10540.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:17:05.283 1 [info] <0.10540.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.10539.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:17:05.594 1 [error] <0.10539.1>@http2_client:handle_settings:822
gen_server <0.10539.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:17:05.595 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10540.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:17:05.595 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:17:05.596 1 [error] <0.10539.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10539.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:17:05.596 1 [error] <0.10540.1>@Undefined:Undefined:Undefined
gen_server <0.10540.1> terminated with reason: connection_down
2022-06-27 22:17:05.596 1 [error] <0.10540.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10540.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:17:05.597 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:17:05.597 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:17:05.599 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10539.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.211.55.217">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6836>,socket_mon =>
#Ref<0.155928093.3974365185.127981>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10540.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 22:17:05.599 1 [warning]
```



```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10540.1>,connection_down}
2022-06-27 22:17:07.144 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:17:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:17:07.145 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:17:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:17:07.147 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6561,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:17:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:17:12.181 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:17:15.600 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:17:15.825 1 [info] <0.10543.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:17:15.827 1 [info] <0.10543.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.10542.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:17:16.044 1 [error] <0.10542.1>@http2_client:handle_settings:822
gen_server <0.10542.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:17:16.046 1 [error] <0.10542.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.10542.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:17:16.047 1 [error] <0.10543.1>@Undefined:Undefined:Undefined
gen_server <0.10543.1> terminated with reason: connection_down
2022-06-27 22:17:16.047 1 [error] <0.10543.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10543.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:17:16.049 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10543.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:17:16.049 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:17:16.050 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:17:16.050 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:17:16.052 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10542.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6837>,socket_mon =>
#Ref<0.155928093.3974365185.128106>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10543.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 22:17:16.052 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10543.1>,connection_down}
2022-06-27 22:17:21.717 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1638.0>
2022-06-27 22:17:22.324 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:17:26.052 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:17:26.316 1 [info] <0.10550.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:17:26.318 1 [info] <0.10550.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.10549.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 22:17:26.572 1 [error] <0.10549.1>@http2_client:handle_settings:822
gen_server <0.10549.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:17:26.574 1 [error] <0.10549.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10549.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:17:26.574 1 [error] <0.10550.1>@Undefined:Undefined:Undefined
gen_server <0.10550.1> terminated with reason: connection_down
2022-06-27 22:17:26.574 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10550.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:17:26.574 1 [error] <0.10550.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10550.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:17:26.575 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:17:26.575 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:17:26.576 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:17:26.577 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10549.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6838>,socket_mon =>
#Ref<0.155928093.3974365185.128244>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10550.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:17:26.578 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10550.1>,connection_down}
2022-06-27 22:17:32.478 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:17:36.578 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:17:36.802 1 [info] <0.10566.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:17:36.804 1 [info] <0.10566.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.10565.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:17:37.019 1 [error] <0.10565.1>@http2_client:handle_settings:822
gen_server <0.10565.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:17:37.021 1 [error] <0.10565.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10565.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:17:37.022 1 [error] <0.10566.1>@Undefined:Undefined:Undefined
gen_server <0.10566.1> terminated with reason: connection_down
2022-06-27 22:17:37.022 1 [error] <0.10566.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10566.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:17:37.023 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10566.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:17:37.023 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:17:37.024 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 22:17:37.024 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:17:37.026 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10565.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{53, {<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "13.215.29.4",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6839>,socket\_mon => #Ref<0.155928093.3974365185.128552>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10566.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}

2022-06-27 22:17:37.026 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10566.1>,connection\_down}

2022-06-27 22:17:37.152 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 22:17:37 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 22:17:37.153 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>

```
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:17:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:17:37.155 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6565,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:17:37 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:17:42.635 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:17:47.027 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:17:47.248 1 [info] <0.10569.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:17:47.249 1 [info] <0.10569.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.10568.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:17:47.466 1 [error] <0.10568.1>@http2_client:handle_settings:822
gen_server <0.10568.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:17:47.467 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10569.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```



```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:17:47.467 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:17:47.468 1 [error] <0.10568.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10568.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:17:47.468 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:17:47.468 1 [error] <0.10569.1>@Undefined:Undefined:Undefined
gen_server <0.10569.1> terminated with reason: connection_down
2022-06-27 22:17:47.468 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:17:47.468 1 [error] <0.10569.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10569.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:17:47.470 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10568.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6840>,socket_mon =>
#Ref<0.155928093.3974365185.128686>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10569.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:17:47.470 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10569.1>,connection_down}
2022-06-27 22:17:52.781 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:17:57.470 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:17:57.619 1 [info] <0.10582.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:17:57.620 1 [info] <0.10582.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.10572.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:17:57.764 1 [error] <0.10572.1>@http2_client:handle_settings:822
gen_server <0.10572.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:17:57.765 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10582.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl",{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl",{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl",{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl",{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl",{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl",{line,226}]]}]]
2022-06-27 22:17:57.765 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:17:57.766 1 [error] <0.10572.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10572.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:17:57.766 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:17:57.766 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:17:57.766 1 [error] <0.10582.1>@Undefined:Undefined:Undefined
gen_server <0.10582.1> terminated with reason: connection_down
2022-06-27 22:17:57.767 1 [error] <0.10582.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10582.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:17:57.767 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10572.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],}],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]],host => "3.137.92.200",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6846>,socket_mon =>
#Ref<0.155928093.3973316611.231593>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10582.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 22:17:57.768 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10582.1>,connection_down}
2022-06-27 22:17:57.956 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11uoThwxbkHKpgrwYgEhsR6xxzpRRSgTpRDd5kn3gvbhMKp7FYf" informed us of
our observed address "/ip4/80.77.186.186/tcp/55474"
2022-06-27 22:18:02.924 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:18:07.149 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:18:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:18:07.149 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:18:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:18:07.150 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6569,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:18:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:18:07.768 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
```

```
{gateway_validators_req_v1_pb,1}
2022-06-27 22:18:08.083 1 [info] <0.10591.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:18:08.085 1 [info] <0.10591.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,>,http_connection => <0.10590.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:18:08.389 1 [error]
<0.10590.1>@http2_client:handle_settings:822 gen_server <0.10590.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:18:08.391 1 [error] <0.10590.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10590.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:18:08.391 1 [error] <0.10591.1>@Undefined:Undefined:Undefined
gen_server <0.10591.1> terminated with reason: connection_down
2022-06-27 22:18:08.392 1 [error] <0.10591.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10591.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:18:08.393 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10591.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:18:08.393 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:18:08.394 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:18:08.394 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:18:08.396 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10590.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6847>,socket_mon =>
#Ref<0.155928093.3973578754.179128>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10591.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 22:18:08.396 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10591.1>,connection_down} 2022-06-27
```

```
22:18:13.080 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:18:18.397 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:18:18.471 1 [info] <0.10594.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:18:18.472 1 [info] <0.10594.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.10593.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:18:18.539 1 [error] <0.10593.1>@http2_client:handle_settings:822
gen_server <0.10593.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:18:18.542 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10594.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:18:18.542 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:18:18.542 1 [error] <0.10593.1>@http2_client:handle_settings:822
```

CRASH REPORT Process <0.10593.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 22:18:18.543 1 [error] <0.10594.1>@Undefined:Undefined:Undefined gen\_server <0.10594.1> terminated with reason: connection\_down  
2022-06-27 22:18:18.543 1 [error] <0.10594.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.10594.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:18:18.544 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 22:18:18.544 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 22:18:18.546 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10593.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {54, {<<":authority">>,<<"52.30.111.82">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "52.30.111.82",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6848>,socket\_mon => #Ref<0.155928093.3974365185.129231>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10594.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}]}



```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 22:18:18.546 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10594.1>,connection_down}
2022-06-27 22:18:23.235 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:18:28.547 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:18:28.691 1 [info] <0.10597.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:18:28.692 1 [info] <0.10597.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.10596.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:18:28.834 1 [error]
<0.10596.1>@http2_client:handle_settings:822 gen_server <0.10596.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:18:28.834 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10597.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 22:18:28.835 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:18:28.836 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:18:28.836 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:18:28.838 1 [error]
<0.10596.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10596.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:18:28.838 1 [error] <0.10597.1>@Undefined:Undefined:Undefined
gen_server <0.10597.1> terminated with reason: connection_down
2022-06-27 22:18:28.839 1 [error] <0.10597.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10597.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:18:28.839 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10596.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6849>,socket_mon =>
#Ref<0.155928093.3973578754.179367>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10597.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 22:18:28.840 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10597.1>,connection_down}
2022-06-27 22:18:33.375 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:18:37.153 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:18:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:18:37.154 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:18:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:18:37.155 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6573,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:18:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:18:38.839 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:18:38.914 1 [info] <0.10615.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:18:38.915 1 [info] <0.10615.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.10614.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:18:38.984 1 [error] <0.10614.1>@http2_client:handle_settings:822
gen_server <0.10614.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:18:38.985 1 [error] <0.10614.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10614.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:18:38.987 1 [error] <0.10615.1>@Undefined:Undefined:Undefined
gen_server <0.10615.1> terminated with reason: connection_down
2022-06-27 22:18:38.987 1 [error] <0.10615.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10615.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:18:38.988 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10615.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:18:38.988 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:18:38.988 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:18:38.988 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 22:18:38.991 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10614.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6850>,socket_mon =>
#Ref<0.155928093.3973578754.179520>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10615.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:18:38.992 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10615.1>,connection_down} 2022-06-27
22:18:43.511 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:18:48.991 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:18:49.256 1 [info] <0.10618.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:18:49.257 1 [info] <0.10618.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"13.125.32.225">>,http_connection => <0.10617.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:18:49.512 1 [error] <0.10617.1>@http2_client:handle_settings:822
gen_server <0.10617.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:18:49.513 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10618.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:18:49.514 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:18:49.514 1 [error] <0.10617.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10617.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:18:49.515 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:18:49.515 1 [error] <0.10618.1>@Undefined:Undefined:Undefined
gen_server <0.10618.1> terminated with reason: connection_down
2022-06-27 22:18:49.515 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:18:49.515 1 [error] <0.10618.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.10618.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:18:49.517 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10617.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66, {<<"content-type">>,<<"application/grpc+proto">>}}],{55, {<<":authority">>,<<"13.125.32.225">>}}],{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "13.125.32.225",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6851>,socket\_mon => #Ref<0.155928093.3974365185.129750>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10618.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:18:49.517 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10618.1>,connection\_down}

2022-06-27 22:18:53.667 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:18:59.517 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.122.38.248": {gateway\_validators\_req\_v1\_pb,1}

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2022-06-27 22:18:59.583 1 [info] <0.10622.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:18:59.584 1 [info] <0.10622.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.10621.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:18:59.644 1 [error] <0.10621.1>@http2_client:handle_settings:822
gen_server <0.10621.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:18:59.645 1 [error] <0.10621.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10621.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:18:59.646 1 [error] <0.10622.1>@Undefined:Undefined:Undefined
gen_server <0.10622.1> terminated with reason: connection_down
2022-06-27 22:18:59.646 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10622.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:18:59.647 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```



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<<"stream create failed">>}}
2022-06-27 22:18:59.647 1 [error] <0.10622.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10622.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:18:59.647 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:18:59.647 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:18:59.648 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10621.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6852>,socket_mon =>
#Ref<0.155928093.3973578754.179771>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10622.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:18:59.649 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10622.1>,connection_down}
2022-06-27 22:19:03.801 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

```
12291671073248440251 on 56833
2022-06-27 22:19:07.148 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:19:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:19:07.149 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:19:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:19:07.150 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6577,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:19:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:19:09.650 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:19:09.726 1 [info] <0.10629.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:19:09.728 1 [info] <0.10629.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.10628.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:19:09.793 1 [error] <0.10628.1>@http2_client:handle_settings:822
gen_server <0.10628.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:19:09.794 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10629.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 22:19:09.794 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:19:09.794 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:19:09.794 1 [error]
<0.10628.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10628.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:19:09.794 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:19:09.795 1 [error] <0.10629.1>@Undefined:Undefined:Undefined
gen_server <0.10629.1> terminated with reason: connection_down
2022-06-27 22:19:09.795 1 [error] <0.10629.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10629.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:19:09.796 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10628.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
```

```
{<<":authority">>,<<"52.210.14.128">>},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6853>,socket_mon =>
#Ref<0.155928093.3973578754.179918>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10629.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 22:19:09.796 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10629.1>,connection_down}
2022-06-27 22:19:13.944 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:19:19.797 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:19:20.060 1 [info] <0.10632.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:19:20.061 1 [info] <0.10632.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.10631.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:19:20.316 1 [error] <0.10631.1>@http2_client:handle_settings:822
gen_server <0.10631.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:19:20.316 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10632.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:19:20.316 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:19:20.317 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:19:20.317 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:19:20.317 1 [error] <0.10631.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10631.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:19:20.318 1 [error] <0.10632.1>@Undefined:Undefined:Undefined
gen_server <0.10632.1> terminated with reason: connection_down
2022-06-27 22:19:20.318 1 [error] <0.10632.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10632.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:19:20.318 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10631.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6854>,socket_mon =>
#Ref<0.155928093.3973578754.180045>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10632.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:19:20.318 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10632.1>,connection_down}
2022-06-27 22:19:24.094 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:19:30.320 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:19:30.635 1 [info] <0.10636.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:19:30.637 1 [info] <0.10636.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.10635.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 22:19:30.942 1 [error]
<0.10635.1>@http2_client:handle_settings:822 gen_server <0.10635.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:19:30.942 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10636.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:19:30.943 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:19:30.943 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:19:30.944 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:19:30.944 1 [error]
<0.10635.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10635.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:19:30.944 1 [error] <0.10636.1>@Undefined:Undefined:Undefined
gen_server <0.10636.1> terminated with reason: connection_down
2022-06-27 22:19:30.945 1 [error] <0.10636.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10636.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

2022-06-27 22:19:30.945 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10635.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6855>,socket_mon =>
#Ref<0.155928093.3973578754.180190>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10636.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 22:19:30.945 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10636.1>,connection_down}
```

2022-06-27 22:19:34.234 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 22:19:37.153 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:19:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
```

```
2022-06-27 22:19:37.154 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```



```
<<"2022-06-27 22:19:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:19:37.155 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6581,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:19:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:19:40.946 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:19:41.265 1 [info] <0.10644.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:19:41.267 1 [info] <0.10644.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.10641.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:19:41.578 1 [error] <0.10641.1>@http2_client:handle_settings:822
gen_server <0.10641.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:19:41.579 1 [error] <0.10641.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10641.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:19:41.580 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10644.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
{file,"miner_poc_grpc_client_statem.erl",{line,721}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 22:19:41.580 1 [error] <0.10644.1>@Undefined:Undefined:Undefined
gen_server <0.10644.1> terminated with reason: connection_down
2022-06-27 22:19:41.580 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:19:41.580 1 [error] <0.10644.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10644.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:19:41.580 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:19:41.581 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:19:41.582 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10641.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6856>,socket_mon =>
#Ref<0.155928093.3973578754.180340>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10644.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 22:19:41.583 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10644.1>,connection_down}
2022-06-27 22:19:43.015 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112SkiyjRWEbQJGFCL2et6yg59iutGP9kxLyiiiraVQYP8Njr3PY" informed us of our
observed address "/ip4/80.77.186.186/tcp/60859"
2022-06-27 22:19:44.377 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:19:51.584 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:19:51.905 1 [info] <0.10673.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:19:51.906 1 [info] <0.10673.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.10672.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:19:52.218 1 [error] <0.10672.1>@http2_client:handle_settings:822
gen_server <0.10672.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:19:52.219 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10673.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 22:19:52.220 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:19:52.220 1 [error] <0.10672.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10672.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:19:52.221 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:19:52.221 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:19:52.221 1 [error] <0.10673.1>@Undefined:Undefined:Undefined
gen_server <0.10673.1> terminated with reason: connection_down
2022-06-27 22:19:52.221 1 [error] <0.10673.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10673.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:19:52.222 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10672.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6862>,socket_mon =>
#Ref<0.155928093.3973578754.180459>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10673.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 22:19:52.223 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10673.1>,connection_down} 2022-06-27
22:19:54.511 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:20:02.224 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:20:02.440 1 [info] <0.10676.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:20:02.442 1 [info] <0.10676.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.10675.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:20:02.648 1 [error]
<0.10675.1>@http2_client:handle_settings:822 gen_server <0.10675.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

2022-06-27 22:20:02.649 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.10676.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]]

2022-06-27 22:20:02.649 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 22:20:02.649 1 [error]

<0.10675.1>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.10675.1> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 22:20:02.650 1 [error] <0.10676.1>@Undefined:Undefined:Undefined  
gen\_server <0.10676.1> terminated with reason: connection\_down

2022-06-27 22:20:02.650 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 22:20:02.650 1 [error] <0.10676.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.10676.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:20:02.651 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 22:20:02.652 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10675.1>,{function\_clause,  
[{"http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6863>,socket_mon =>
#Ref<0.155928093.3973578754.180490>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10676.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:20:02.653 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10676.1>,connection_down} 2022-06-27
22:20:04.651 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:20:07.155 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:20:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:20:07.156 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:20:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:20:07.159 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6585,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:20:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
```

```
2022-06-27 22:20:12.653 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:20:12.726 1 [info] <0.10684.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:20:12.727 1 [info] <0.10684.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.10683.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:20:12.794 1 [error] <0.10683.1>@http2_client:handle_settings:822
gen_server <0.10683.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:20:12.795 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10684.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:20:12.795 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:20:12.795 1 [error] <0.10683.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10683.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```



```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:20:12.796 1 [error] <0.10684.1>@Undefined:Undefined:Undefined
gen_server <0.10684.1> terminated with reason: connection_down
2022-06-27 22:20:12.796 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:20:12.796 1 [error] <0.10684.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10684.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:20:12.796 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:20:12.797 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10683.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6864>,socket_mon =>
#Ref<0.155928093.3973578754.180541>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10684.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 22:20:12.798 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10684.1>,connection_down}
2022-06-27 22:20:14.781 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:20:22.799 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:20:22.866 1 [info] <0.10687.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:20:22.868 1 [info] <0.10687.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.10686.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:20:22.926 1 [error]
<0.10686.1>@http2_client:handle_settings:822 gen_server <0.10686.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:20:22.927 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10687.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:20:22.927 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}  
2022-06-27 22:20:22.927 1 [error]  
<0.10686.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.10686.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 22:20:22.927 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 22:20:22.927 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 22:20:22.927 1 [error] <0.10687.1>@Undefined:Undefined:Undefined gen\_server <0.10687.1> terminated with reason: connection\_down  
2022-06-27 22:20:22.928 1 [error] <0.10687.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.10687.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:20:22.929 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10686.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{53, {<<":authority">>,<<"3.70.55.231">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.70.55.231",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6865>,socket\_mon => #Ref<0.155928093.3973578754.180563>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10687.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport =>

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:20:22.929 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10687.1>,connection_down} 2022-06-27
22:20:24.934 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:20:32.929 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:20:33.252 1 [info] <0.10690.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:20:33.253 1 [info] <0.10690.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.10689.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:20:33.565 1 [error]
<0.10689.1>@http2_client:handle_settings:822 gen_server <0.10689.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:20:33.568 1 [error]
<0.10689.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10689.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:20:33.568 1 [error] <0.10690.1>@Undefined:Undefined:Undefined
gen_server <0.10690.1> terminated with reason: connection_down
2022-06-27 22:20:33.569 1 [error] <0.10690.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.10690.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:20:33.571 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.10690.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 22:20:33.571 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 22:20:33.572 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 22:20:33.573 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:20:33.574 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10689.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "3.24.161.210",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

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16384},server_window => 65528,socket => #Port<0.6866>,socket_mon =>
#Ref<0.155928093.3973578754.180593>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10690.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:20:33.575 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10690.1>,connection_down}
2022-06-27 22:20:35.084 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:20:37.160 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:20:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:20:37.161 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:20:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:20:37.163 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6589,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:20:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:20:43.574 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:20:43.795 1 [info] <0.10697.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:20:43.796 1 [info] <0.10697.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"13.215.29.4">>,http_connection => <0.10696.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:20:44.016 1 [error]
<0.10696.1>@http2_client:handle_settings:822 gen_server <0.10696.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:20:44.019 1 [error]
<0.10696.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10696.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:20:44.019 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10697.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:20:44.020 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:20:44.020 1 [error] <0.10697.1>@Undefined:Undefined:Undefined
gen_server <0.10697.1> terminated with reason: connection_down
2022-06-27 22:20:44.020 1 [error] <0.10697.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10697.1> with 0 neighbours exited with reason:
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connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:20:44.021 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 22:20:44.021 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:20:44.024 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10696.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{53,  
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}]},host => "13.215.29.4",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
>=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6867>,socket\_mon =>  
#Ref<0.155928093.3974365185.132056>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.10697.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:20:44.024 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10697.1>,connection\_down} 2022-06-27  
22:20:44.603 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5}  
PUSH\_DATA #{<<"rxpk">> => [#{<<"chan">> => 5,<<"codr">> =>  
<<"4/5">>,<<"data">> => <<"QDDaAAHkTrNeAOy+ADNY4yITpbjOjPpq4W/  
pzNNAeOLcQuHb7Bmft2IGJG29izPAE2jYEA==">>,<<"datr">> =>  
<<"SF12BW125">>,<<"foff">> => -242,<<"freq">> => 867.5,<<"jver">> =>



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1,<<"lsnr">> => -20.2,<<"mid">> => 0,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 0,<<"rssi">> => -112,<<"rssi">> => -131,<<"size">> => 52,<<"stat">> =>
1,<<"tmst">> => 2715694604}} from 12291671073248440251 on 35152
2022-06-27 22:20:45.228 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:20:54.024 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:20:54.342 1 [info] <0.10716.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:20:54.343 1 [info] <0.10716.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.10715.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:20:54.654 1 [error] <0.10715.1>@http2_client:handle_settings:822
gen_server <0.10715.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:20:54.657 1 [error] <0.10715.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10715.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:20:54.656 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10716.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

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[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:20:54.657 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:20:54.657 1 [error] <0.10716.1>@Undefined:Undefined:Undefined
gen_server <0.10716.1> terminated with reason: connection_down
2022-06-27 22:20:54.657 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:20:54.657 1 [error] <0.10716.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10716.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:20:54.657 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:20:54.659 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10715.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.211.55.217">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6868>,socket_mon =>
#Ref<0.155928093.3974365185.132502>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10716.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:20:54.659 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10716.1>,connection_down} 2022-06-27
22:20:55.381 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:21:04.660 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:21:04.872 1 [info] <0.10720.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:21:04.874 1 [info] <0.10720.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.10719.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:21:05.081 1 [error] <0.10719.1>@http2_client:handle_settings:822
gen_server <0.10719.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:21:05.082 1 [error] <0.10719.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10719.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:21:05.082 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10720.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

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[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 22:21:05.082 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:21:05.082 1 [error] <0.10720.1>@Undefined:Undefined:Undefined
gen_server <0.10720.1> terminated with reason: connection_down
2022-06-27 22:21:05.083 1 [error] <0.10720.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10720.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:21:05.083 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:21:05.083 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:21:05.084 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10719.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"44.229.159.157">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6869>,socket_mon =>
#Ref<0.155928093.3974365185.132886>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.10720.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 22:21:05.085 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10720.1>,connection_down}
2022-06-27 22:21:05.521 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:21:07.158 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:21:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:21:07.158 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:21:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:21:07.159 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6593,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:21:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:21:15.086 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:21:15.161 1 [info] <0.10726.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:21:15.162 1 [info] <0.10726.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.10725.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:21:15.230 1 [error] <0.10725.1>@http2_client:handle_settings:822
gen_server <0.10725.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:21:15.232 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10726.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:21:15.232 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:21:15.232 1 [error] <0.10725.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10725.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:21:15.233 1 [error] <0.10726.1>@Undefined:Undefined:Undefined
gen_server <0.10726.1> terminated with reason: connection_down
2022-06-27 22:21:15.233 1 [error] <0.10726.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10726.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:21:15.234 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:21:15.234 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 22:21:15.235 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10725.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6870>,socket_mon =>
#Ref<0.155928093.3973578754.180689>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10726.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 22:21:15.236 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10726.1>,connection_down} 2022-06-27
22:21:15.654 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:21:25.236 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:21:25.454 1 [info] <0.10732.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:21:25.456 1 [info] <0.10732.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"52.89.130.114">>,http_connection => <0.10731.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:21:25.670 1 [error] <0.10731.1>@http2_client:handle_settings:822
gen_server <0.10731.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:21:25.670 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10732.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},
{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:21:25.671 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:21:25.671 1 [error] <0.10731.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10731.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:21:25.672 1 [error] <0.10732.1>@Undefined:Undefined:Undefined
gen_server <0.10732.1> terminated with reason: connection_down
2022-06-27 22:21:25.672 1 [error] <0.10732.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10732.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:21:25.672 1 [warning]
```



<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 22:21:25.673 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 22:21:25.674 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10731.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[[42, {<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66, {<<"content-type">>,<<"application/grpc+proto">>}],{55, {<<":authority">>,<<"52.89.130.114">>}],{63,{<<":path">>,<<"/helium.gateway/validators">>}]}],host => "52.89.130.114",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6871>,socket\_mon => #Ref<0.155928093.3974365185.133417>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10732.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}]}  
2022-06-27 22:21:25.675 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10732.1>,connection\_down} 2022-06-27 22:21:25.801 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:21:35.674 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.228.115.118": {gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:21:35.934 1 [info] <0.10735.1>@grpc\_client\_stream\_custom:init:

```
{131,9} init stream for RPC validators and type unary
2022-06-27 22:21:35.937 1 [info] <0.10735.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.10734.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:21:35.940 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:21:36.187 1 [error] <0.10734.1>@http2_client:handle_settings:822
gen_server <0.10734.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:21:36.188 1 [error] <0.10734.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10734.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:21:36.188 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10735.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:21:36.188 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
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<<"stream create failed">>}}
2022-06-27 22:21:36.189 1 [error] <0.10735.1>@Undefined:Undefined:Undefined
gen_server <0.10735.1> terminated with reason: connection_down
2022-06-27 22:21:36.189 1 [error] <0.10735.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10735.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:21:36.189 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:21:36.189 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:21:36.191 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10734.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6872>,socket_mon =>
#Ref<0.155928093.3974365185.133655>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10735.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:21:36.191 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10735.1>,connection_down}
```

```
2022-06-27 22:21:37.160 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:21:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:21:37.161 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:21:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:21:37.162 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6597,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:21:37 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:21:46.085 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:21:46.191 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:21:46.505 1 [info] <0.10738.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:21:46.506 1 [info] <0.10738.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.10737.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:21:46.812 1 [error] <0.10737.1>@http2_client:handle_settings:822
gen_server <0.10737.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:21:46.814 1 [error] <0.10737.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10737.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:21:46.814 1 [error] <0.10738.1>@Undefined:Undefined:Undefined
gen_server <0.10738.1> terminated with reason: connection_down
2022-06-27 22:21:46.815 1 [error] <0.10738.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10738.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:21:46.815 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10738.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]
2022-06-27 22:21:46.816 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:21:46.816 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:21:46.817 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:21:46.818 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10737.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6873>,socket_mon =>
#Ref<0.155928093.3974365185.133913>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10738.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:21:46.819 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10738.1>,connection_down} 2022-06-27
22:21:56.231 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:21:56.818 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:21:57.036 1 [info] <0.10787.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:21:57.038 1 [info] <0.10787.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.10786.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:21:57.254 1 [error] <0.10786.1>@http2_client:handle_settings:822
gen_server <0.10786.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:21:57.258 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10787.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:21:57.258 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:21:57.259 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:21:57.259 1 [error] <0.10786.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10786.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:21:57.260 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:21:57.260 1 [error] <0.10787.1>@Undefined:Undefined:Undefined
gen_server <0.10787.1> terminated with reason: connection_down
2022-06-27 22:21:57.261 1 [error] <0.10787.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10787.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:21:57.263 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10786.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6876>,socket_mon =>
#Ref<0.155928093.3974365185.134645>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10787.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:21:57.264 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10787.1>,connection_down} 2022-06-27
22:22:06.374 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:22:07.159 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:22:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:22:07.160 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:22:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:22:07.161 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6601,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:22:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
```



```
2022-06-27 22:22:07.263 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:22:07.521 1 [info] <0.10790.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:22:07.524 1 [info] <0.10790.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.10789.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:22:07.779 1 [error] <0.10789.1>@http2_client:handle_settings:822
gen_server <0.10789.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:22:07.780 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10790.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:22:07.780 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:22:07.781 1 [error] <0.10789.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10789.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:22:07.782 1 [error] <0.10790.1>@Undefined:Undefined:Undefined
gen_server <0.10790.1> terminated with reason: connection_down
2022-06-27 22:22:07.782 1 [error] <0.10790.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10790.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:22:07.782 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:22:07.783 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:22:07.785 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10789.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6877>,socket_mon =>
#Ref<0.155928093.3974365185.134883>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10790.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}]
2022-06-27 22:22:07.786 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10790.1>,connection_down} 2022-06-27
22:22:16.515 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:22:17.786 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:22:18.006 1 [info] <0.10794.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:22:18.007 1 [info] <0.10794.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.10793.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:22:18.223 1 [error] <0.10793.1>@http2_client:handle_settings:822
gen_server <0.10793.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:22:18.226 1 [error] <0.10793.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10793.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:22:18.226 1 [error] <0.10794.1>@Undefined:Undefined:Undefined
gen_server <0.10794.1> terminated with reason: connection_down
2022-06-27 22:22:18.226 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10794.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:22:18.227 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:22:18.227 1 [error] <0.10794.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10794.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:22:18.228 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:22:18.228 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:22:18.230 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10793.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.89.130.114">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6878>,socket_mon =>
#Ref<0.155928093.3974365185.135136>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10794.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:22:18.230 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10794.1>,connection_down} 2022-06-27
22:22:21.718 1 [info] <0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5}
dropping target for peerbook <0.1641.0>
2022-06-27 22:22:22.929 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112YEKpfD3GrxGmfpNbxhwDpMC1bEDys4HhfNY199q9ct4XLommd" informed us
of our observed address "/ip4/80.77.186.186/tcp/24855"
2022-06-27 22:22:26.667 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:22:28.231 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:22:28.492 1 [info] <0.10819.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:22:28.493 1 [info] <0.10819.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.10818.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:22:28.745 1 [error] <0.10818.1>@http2_client:handle_settings:822
gen_server <0.10818.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:22:28.749 1 [error] <0.10818.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10818.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:22:28.749 1 [error] <0.10819.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.10819.1> terminated with reason: connection_down
2022-06-27 22:22:28.750 1 [error] <0.10819.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10819.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:22:28.751 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10819.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:22:28.752 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:22:28.752 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:22:28.753 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:22:28.755 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10818.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6884>,socket_mon =>
#Ref<0.155928093.3974365185.135652>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10819.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:22:28.756 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10819.1>,connection_down} 2022-06-27
22:22:36.808 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:22:37.163 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:22:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:22:37.163 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:22:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:22:37.165 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6605,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:22:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:22:38.755 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:22:39.016 1 [info] <0.10822.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:22:39.017 1 [info] <0.10822.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.10821.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:22:39.279 1 [error] <0.10821.1>@http2_client:handle_settings:822
gen_server <0.10821.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:22:39.280 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10822.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:22:39.281 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:22:39.281 1 [error] <0.10821.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10821.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:22:39.282 1 [error] <0.10822.1>@Undefined:Undefined:Undefined
gen_server <0.10822.1> terminated with reason: connection_down
2022-06-27 22:22:39.283 1 [error] <0.10822.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10822.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```



2022-06-27 22:22:39.284 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 22:22:39.284 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:22:39.287 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10821.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"13.209.94.225">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "13.209.94.225",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6885>,socket\_mon => #Ref<0.155928093.3973578754.180776>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10822.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:22:39.288 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10822.1>,connection\_down}

2022-06-27 22:22:46.951 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:22:49.287 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.211.55.217":

```
{gateway_validators_req_v1_pb,1}
2022-06-27 22:22:49.608 1 [info] <0.10826.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:22:49.610 1 [info] <0.10826.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.10825.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:22:49.923 1 [error]
<0.10825.1>@http2_client:handle_settings:822 gen_server <0.10825.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:22:49.925 1 [error]
<0.10825.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10825.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:22:49.926 1 [error] <0.10826.1>@Undefined:Undefined:Undefined
gen_server <0.10826.1> terminated with reason: connection_down
2022-06-27 22:22:49.927 1 [error] <0.10826.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10826.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:22:49.928 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10826.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:22:49.929 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:22:49.930 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:22:49.931 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:22:49.934 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10825.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.211.55.217">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6886>,socket_mon =>
#Ref<0.155928093.3974365185.136103>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10826.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}}
2022-06-27 22:22:49.935 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.10826.1>,connection_down}
2022-06-27 22:22:57.097 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:22:59.933 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:23:00.008 1 [info] <0.10836.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:23:00.010 1 [info] <0.10836.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.10835.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:23:00.074 1 [error]
<0.10835.1>@http2_client:handle_settings:822 gen_server <0.10835.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:23:00.075 1 [error]
<0.10835.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10835.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:23:00.076 1 [error] <0.10836.1>@Undefined:Undefined:Undefined
gen_server <0.10836.1> terminated with reason: connection_down
2022-06-27 22:23:00.076 1 [error] <0.10836.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10836.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:23:00.077 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10836.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 22:23:00.077 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:23:00.078 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:23:00.078 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:23:00.079 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10835.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6887>,socket_mon =>
#Ref<0.155928093.3974365185.136466>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10836.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:23:00.080 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10836.1>,connection_down}
2022-06-27 22:23:07.159 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:23:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:23:07.159 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:23:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:23:07.161 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6608,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:23:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:23:07.231 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:23:10.080 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:23:10.146 1 [info] <0.10847.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:23:10.147 1 [info] <0.10847.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.10846.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 22:23:10.208 1 [error]
<0.10846.1>@http2_client:handle_settings:822 gen_server <0.10846.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:23:10.210 1 [error] <0.10846.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10846.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:23:10.212 1 [error] <0.10847.1>@Undefined:Undefined:Undefined
gen_server <0.10847.1> terminated with reason: connection_down
2022-06-27 22:23:10.213 1 [error] <0.10847.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10847.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:23:10.215 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10847.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:23:10.215 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:23:10.216 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:23:10.217 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:23:10.220 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10846.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6888>,socket_mon =>
#Ref<0.155928093.3974365185.136803>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10847.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]
2022-06-27 22:23:10.221 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10847.1>,connection_down} 2022-06-27
22:23:17.367 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:23:20.219 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:23:20.287 1 [info] <0.10850.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:23:20.290 1 [info] <0.10850.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.10849.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```



```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:23:20.348 1 [error]
<0.10849.1>@http2_client:handle_settings:822 gen_server <0.10849.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:23:20.351 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10850.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:23:20.351 1 [error]
<0.10849.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10849.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:23:20.352 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:23:20.352 1 [error] <0.10850.1>@Undefined:Undefined:Undefined
gen_server <0.10850.1> terminated with reason: connection_down
2022-06-27 22:23:20.352 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:23:20.353 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:23:20.353 1 [error] <0.10850.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.10850.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:23:20.356 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10849.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{54, {<<":authority">>,<<"3.72.143.228">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.72.143.228",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6889>,socket\_mon => #Ref<0.155928093.3974365185.137039>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10850.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}]}

2022-06-27 22:23:20.356 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10850.1>,connection\_down}

2022-06-27 22:23:27.525 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:23:30.356 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.30.1.39": {gateway\_validators\_req\_v1\_pb,1}

```
2022-06-27 22:23:30.431 1 [info] <0.10864.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:23:30.434 1 [info] <0.10864.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.10863.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:23:30.499 1 [error]
<0.10863.1>@http2_client:handle_settings:822 gen_server <0.10863.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:23:30.500 1 [error]
<0.10863.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10863.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:23:30.501 1 [error] <0.10864.1>@Undefined:Undefined:Undefined
gen_server <0.10864.1> terminated with reason: connection_down
2022-06-27 22:23:30.501 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10864.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:23:30.501 1 [error] <0.10864.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.10864.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:23:30.501 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 22:23:30.502 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 22:23:30.502 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 22:23:30.504 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10863.1>,{function\_clause,  
[http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,282,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,  
{<<"content-type">>,<<"application/grpc+proto">>}],{52,  
{<<":authority">>,<<"52.30.1.39">>}],{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "52.30.1.39",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6890>,socket\_mon =>  
#Ref<0.155928093.3974365185.137412>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.10864.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:23:30.504 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10864.1>,connection\_down}

```
2022-06-27 22:23:37.165 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:23:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:23:37.166 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:23:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:23:37.167 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6612,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:23:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:23:37.668 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:23:40.504 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:23:40.577 1 [info] <0.10867.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:23:40.578 1 [info] <0.10867.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.10866.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:23:40.646 1 [error]
<0.10866.1>@http2_client:handle_settings:822 gen_server <0.10866.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:23:40.649 1 [error]
```

```
<0.10866.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10866.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:23:40.650 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10867.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:23:40.650 1 [error] <0.10867.1>@Undefined:Undefined:Undefined
gen_server <0.10867.1> terminated with reason: connection_down
2022-06-27 22:23:40.650 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:23:40.650 1 [error] <0.10867.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10867.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:23:40.650 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:23:40.650 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:23:40.652 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10866.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.210.14.128">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6891>,socket_mon =>
#Ref<0.155928093.3974365185.137657>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10867.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:23:40.653 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10867.1>,connection_down}
2022-06-27 22:23:47.824 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:23:50.653 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:23:50.914 1 [info] <0.10870.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:23:50.915 1 [info] <0.10870.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.10869.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:23:51.173 1 [error] <0.10869.1>@http2_client:handle_settings:822
```

```
gen_server <0.10869.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:23:51.174 1 [error] <0.10869.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10869.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:23:51.175 1 [error] <0.10870.1>@Undefined:Undefined:Undefined
gen_server <0.10870.1> terminated with reason: connection_down
2022-06-27 22:23:51.176 1 [error] <0.10870.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10870.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:23:51.176 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10870.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:23:51.177 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:23:51.177 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:23:51.178 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:23:51.181 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10869.1>,{function_clause,
```



```
{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6892>,socket_mon =>
#Ref<0.155928093.3974365185.137899>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10870.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:23:51.182 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10870.1>,connection_down} 2022-06-27
22:23:57.965 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:24:01.180 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:24:01.393 1 [info] <0.10875.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:24:01.394 1 [info] <0.10875.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.10874.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:24:01.601 1 [error] <0.10874.1>@http2_client:handle_settings:822
gen_server <0.10874.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:24:01.602 1 [error] <0.10874.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10874.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:24:01.603 1 [error] <0.10875.1>@Undefined:Undefined:Undefined
gen_server <0.10875.1> terminated with reason: connection_down
2022-06-27 22:24:01.603 1 [error] <0.10875.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10875.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:24:01.604 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10875.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:24:01.604 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:24:01.605 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:24:01.605 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 22:24:01.606 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10874.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6893>,socket_mon =>
#Ref<0.155928093.3974365185.138185>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10875.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 22:24:01.607 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10875.1>,connection_down} 2022-06-27
22:24:07.164 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:24:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:24:07.165 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:24:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:24:07.167 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6616,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:24:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:24:08.115 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:24:11.608 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:24:11.926 1 [info] <0.10891.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:24:11.927 1 [info] <0.10891.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.10890.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:24:12.238 1 [error]
<0.10890.1>@http2_client:handle_settings:822 gen_server <0.10890.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:24:12.239 1 [error]
<0.10890.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10890.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:24:12.240 1 [error] <0.10891.1>@Undefined:Undefined:Undefined
gen_server <0.10891.1> terminated with reason: connection_down
2022-06-27 22:24:12.240 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10891.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:24:12.240 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:24:12.241 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:24:12.241 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:24:12.240 1 [error] <0.10891.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10891.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:24:12.242 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10890.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"3.104.32.11">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6894>,socket_mon =>
#Ref<0.155928093.3974365185.138575>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.10891.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 22:24:12.242 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10891.1>,connection_down} 2022-06-27
22:24:18.257 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:24:22.242 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:24:22.456 1 [info] <0.10894.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:24:22.457 1 [info] <0.10894.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.10893.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:24:22.664 1 [error]
<0.10893.1>@http2_client:handle_settings:822 gen_server <0.10893.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:24:22.665 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10894.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl",{line,418}}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:24:22.665 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:24:22.665 1 [error]
<0.10893.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10893.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:24:22.667 1 [error] <0.10894.1>@Undefined:Undefined:Undefined
gen_server <0.10894.1> terminated with reason: connection_down
2022-06-27 22:24:22.667 1 [error] <0.10894.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10894.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:24:22.667 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:24:22.667 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:24:22.669 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10893.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6895>,socket_mon =>
#Ref<0.155928093.3974365185.138814>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10894.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:24:22.669 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10894.1>,connection_down}
2022-06-27 22:24:28.399 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:24:32.670 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:24:32.745 1 [info] <0.10901.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:24:32.746 1 [info] <0.10901.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.10900.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:24:32.815 1 [error]
<0.10900.1>@http2_client:handle_settings:822 gen_server <0.10900.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```



2022-06-27 22:24:32.815 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.10901.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}

2022-06-27 22:24:32.816 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 22:24:32.816 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 22:24:32.816 1 [error]

<0.10900.1>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.10900.1> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 22:24:32.816 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 22:24:32.817 1 [error] <0.10901.1>@Undefined:Undefined:Undefined  
gen\_server <0.10901.1> terminated with reason: connection\_down

2022-06-27 22:24:32.818 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10900.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {54,
{<<":authority">>,<<"52.30.111.82">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}}], host => "52.30.111.82", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.6896>, socket_mon =>
#Ref<0.155928093.3974365185.139099>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.10901.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file, "http2_client.erl"}, {line, 822}],
{http2_client, handle_packet, 2, [{file, "http2_client.erl"}, {line, 648}],
{gen_server, try_dispatch, 4, [{file, "gen_server.erl"}, {line, 695}],
{gen_server, handle_msg, 6, [{file, "gen_server.erl"}, {line, 771}],
{proc_lib, init_p_do_apply, 3, [{file, "proc_lib.erl"}, {line, 226}]}}]}
2022-06-27 22:24:32.818 1 [error] <0.10901.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10901.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:24:32.818 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT', <0.10901.1>, connection_down} 2022-06-27
22:24:37.167 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0, <<"dwnb">> => 0, <<"rxfw">>
=> 0, <<"rxnb">> => 0, <<"rxok">> => 0, <<"temp">> => 0.0, <<"time">> =>
<<"2022-06-27 22:24:37 GMT">>, <<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:24:37.168 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0, <<"dwnb">> => 0, <<"rxfw">> =>
0, <<"rxnb">> => 0, <<"rxok">> => 0, <<"temp">> => 0.0, <<"time">> =>
<<"2022-06-27 22:24:37 GMT">>, <<"txnb">> => 0}
2022-06-27 22:24:37.170 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251, ip={172,17,0,1}, port=56833, sent=0, received=6620,
dropped=0, status=#{<<"ackr">> => 0.0, <<"dwnb">> => 0, <<"rxfw">>
=> 0, <<"rxnb">> => 0, <<"rxok">> => 0, <<"temp">> => 0.0, <<"time">> =>
<<"2022-06-27 22:24:37 GMT">>, <<"txnb">> =>
0}, rtt_samples=[], rtt=5000000}
2022-06-27 22:24:38.541 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
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2022-06-27 22:24:42.818 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:24:42.884 1 [info] <0.10910.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:24:42.885 1 [info] <0.10910.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.10909.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:24:42.944 1 [error]
<0.10909.1>@http2_client:handle_settings:822 gen_server <0.10909.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:24:42.945 1 [error]
<0.10909.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10909.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:24:42.947 1 [error] <0.10910.1>@Undefined:Undefined:Undefined
gen_server <0.10910.1> terminated with reason: connection_down
2022-06-27 22:24:42.947 1 [error] <0.10910.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10910.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:24:42.947 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10910.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
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{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:24:42.947 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:24:42.948 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:24:42.948 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:24:42.949 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10909.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6897>,socket_mon =>
#Ref<0.155928093.3974365185.139398>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10910.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}}
2022-06-27 22:24:42.949 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10910.1>,connection_down} 2022-06-27
22:24:48.681 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:24:52.950 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:24:53.171 1 [info] <0.10913.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:24:53.172 1 [info] <0.10913.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.10912.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:24:53.386 1 [error]
<0.10912.1>@http2_client:handle_settings:822 gen_server <0.10912.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:24:53.387 1 [error] <0.10912.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10912.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:24:53.388 1 [error] <0.10913.1>@Undefined:Undefined:Undefined
gen_server <0.10913.1> terminated with reason: connection_down
2022-06-27 22:24:53.388 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10913.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:24:53.388 1 [error] <0.10913.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10913.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:24:53.388 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:24:53.389 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:24:53.389 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:24:53.390 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10912.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.215.75.202">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6898>,socket_mon =>
#Ref<0.155928093.3974365185.139627>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10913.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:24:53.391 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10913.1>,connection_down} 2022-06-27
22:24:58.837 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:25:03.392 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:25:03.607 1 [info] <0.10917.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:25:03.609 1 [info] <0.10917.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.10916.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:25:03.816 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10917.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:25:03.816 1 [error] <0.10916.1>@http2_client:handle_settings:822
gen_server <0.10916.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:25:03.817 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:25:03.818 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:25:03.818 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:25:03.819 1 [error] <0.10916.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10916.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:25:03.820 1 [error] <0.10917.1>@Undefined:Undefined:Undefined
gen_server <0.10917.1> terminated with reason: connection_down
2022-06-27 22:25:03.821 1 [error] <0.10917.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10917.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:25:03.823 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10916.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"54.70.239.5">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6899>,socket_mon =>
#Ref<0.155928093.3974365185.139884>,state => open,stream_count =>
```



```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10917.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 22:25:03.823 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10917.1>,connection_down}
2022-06-27 22:25:07.165 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:25:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:25:07.166 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:25:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:25:07.167 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6624,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:25:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:25:08.988 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:25:13.821 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:25:14.034 1 [info] <0.10947.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:25:14.036 1 [info] <0.10947.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.10946.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:25:14.737 1 [error] <0.10946.1>@http2_client:handle_settings:822
gen_server <0.10946.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:25:14.738 1 [error] <0.10946.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10946.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:25:14.739 1 [error] <0.10947.1>@Undefined:Undefined:Undefined
gen_server <0.10947.1> terminated with reason: connection_down
2022-06-27 22:25:14.740 1 [error] <0.10947.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10947.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:25:14.742 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10947.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:25:14.742 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:25:14.743 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

2022-06-27 22:25:14.743 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:25:14.747 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10946.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {53, {<<":authority">>,<<"54.70.239.5">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "54.70.239.5",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6901>,socket\_mon => #Ref<0.155928093.3974365185.140428>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.10947.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:25:14.748 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.10947.1>,connection\_down} 2022-06-27 22:25:19.134 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:25:24.746 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.125.32.225":  
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 22:25:25.007 1 [info] <0.10951.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 22:25:25.008 1 [info] <0.10951.1>@grpc\_client\_stream\_custom:init:

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{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.10950.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:25:25.269 1 [error]
<0.10950.1>@http2_client:handle_settings:822 gen_server <0.10950.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:25:25.271 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10951.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:25:25.271 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:25:25.273 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:25:25.273 1 [error]
<0.10950.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10950.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:25:25.274 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:25:25.274 1 [error] <0.10951.1>@Undefined:Undefined:Undefined
gen_server <0.10951.1> terminated with reason: connection_down
2022-06-27 22:25:25.275 1 [error] <0.10951.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10951.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:25:25.277 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10950.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6902>,socket_mon =>
#Ref<0.155928093.3973578754.180965>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10951.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:25:25.278 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10951.1>,connection_down} 2022-06-27
22:25:29.277 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:25:35.277 1 [info]
```

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<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:25:35.538 1 [info] <0.10956.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:25:35.540 1 [info] <0.10956.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2_client,host => <<"3.39.165.144">>,http_connection => <0.10955.1>,scheme => <<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input => gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway_resp_v1_pb,output_stream => false,package => [],queue => {[[],[]]},response_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod: miner_poc_grpc_client_handler
2022-06-27 22:25:35.794 1 [error]
<0.10955.1>@http2_client:handle_settings:822 gen_server <0.10955.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:25:35.796 1 [error]
<0.10955.1>@http2_client:handle_settings:822 CRASH REPORT Process <0.10955.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client_settings => #{enable_push => 0,header_table_size => 4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:25:35.800 1 [error] <0.10956.1>@Undefined:Undefined:Undefined gen_server <0.10956.1> terminated with reason: connection_down
2022-06-27 22:25:35.800 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10956.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
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{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 22:25:35.800 1 [error] <0.10956.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10956.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:25:35.801 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:25:35.801 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:25:35.802 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:25:35.805 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10955.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.39.165.144">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6903>,socket_mon =>
#Ref<0.155928093.3974365185.140945>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10956.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}
```

2022-06-27 22:25:35.807 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.10956.1>,connection\_down}  
2022-06-27 22:25:37.171 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:25:37 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 22:25:37.172 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:25:37 GMT">>,<<"txnb">> => 0}  
2022-06-27 22:25:37.173 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=6628,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:25:37 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 22:25:39.417 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:25:45.804 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.210.14.128":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:25:45.880 1 [info] <0.10967.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 22:25:45.883 1 [info] <0.10967.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"52.210.14.128">>,http\_connection => <0.10966.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[ ]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 22:25:45.948 1 [error]  
<0.10966.1>@http2\_client:handle\_settings:822 gen\_server <0.10966.1>  
terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>



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<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 22:25:45.949 1 [error]
<0.10966.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10966.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 22:25:45.950 1 [error] <0.10967.1>@Undefined:Undefined:Undefined
gen_server <0.10967.1> terminated with reason: connection_down
2022-06-27 22:25:45.950 1 [error] <0.10967.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10967.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:25:45.951 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10967.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:25:45.951 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:25:45.951 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:25:45.951 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:25:45.952 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10966.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6904>,socket_mon =>
#Ref<0.155928093.3974365185.141280>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10967.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:25:45.953 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10967.1>,connection_down}
2022-06-27 22:25:49.557 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:25:55.954 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:25:56.175 1 [info] <0.10971.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:25:56.176 1 [info] <0.10971.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.10970.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:25:56.390 1 [error]
<0.10970.1>@http2_client:handle_settings:822 gen_server <0.10970.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:25:56.391 1 [error] <0.10970.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10970.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:25:56.392 1 [error] <0.10971.1>@Undefined:Undefined:Undefined
gen_server <0.10971.1> terminated with reason: connection_down
2022-06-27 22:25:56.392 1 [error] <0.10971.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10971.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:25:56.393 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10971.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:25:56.393 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:25:56.394 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:25:56.394 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 22:25:56.395 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10970.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"54.251.77.229">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6910>,socket_mon =>
#Ref<0.155928093.3974365185.141530>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10971.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 22:25:56.396 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10971.1>,connection_down} 2022-06-27
22:25:56.951 1 [warning] <0.1642.0>@libp2p_group_worker:connecting:{238,5}
Failed to connect to "/p2p/
112jGdzG5Gn6WvTPhJgNZnjJoXsV2ruaViQDSrJisSjKEc5QhuwQ": [{"/
ip4/77.120.38.48/tcp/44159",timeout}]
2022-06-27 22:25:59.707 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:26:06.397 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 22:26:06.461 1 [info] <0.10975.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:26:06.462 1 [info] <0.10975.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.10974.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:26:06.522 1 [error]
<0.10974.1>@http2_client:handle_settings:822 gen_server <0.10974.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:26:06.523 1 [error]
<0.10974.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10974.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:26:06.527 1 [error] <0.10975.1>@Undefined:Undefined:Undefined
gen_server <0.10975.1> terminated with reason: connection_down
2022-06-27 22:26:06.528 1 [error] <0.10975.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10975.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:26:06.529 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10975.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:26:06.529 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:26:06.530 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:26:06.530 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:26:06.534 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10974.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6911>,socket_mon =>
#Ref<0.155928093.3974365185.141914>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10975.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}]
2022-06-27 22:26:06.535 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10975.1>,connection_down} 2022-06-27
```

```
22:26:07.177 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:26:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:26:07.178 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:26:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:26:07.180 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6632,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:26:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:26:09.855 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:26:16.533 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:26:16.757 1 [info] <0.10985.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:26:16.760 1 [info] <0.10985.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.10984.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:26:16.973 1 [error] <0.10984.1>@http2_client:handle_settings:822
gen_server <0.10984.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:26:16.975 1 [error] <0.10984.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10984.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:26:16.975 1 [error] <0.10985.1>@Undefined:Undefined:Undefined
gen_server <0.10985.1> terminated with reason: connection_down
2022-06-27 22:26:16.975 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10985.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:26:16.975 1 [error] <0.10985.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10985.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:26:16.975 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:26:16.977 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:26:16.977 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:26:16.979 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10984.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
```



```
{<<"content-type">>,<<"application/grpc+proto">>},{53,
{<<":authority">>,<<"13.215.29.4">>},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6912>,socket_mon =>
#Ref<0.155928093.3973578754.181047>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10985.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:26:16.980 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10985.1>,connection_down}
2022-06-27 22:26:20.011 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:26:26.980 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:26:27.129 1 [info] <0.10996.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:26:27.130 1 [info] <0.10996.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.10995.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:26:27.275 1 [error] <0.10995.1>@http2_client:handle_settings:822
gen_server <0.10995.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:26:27.275 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10996.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:26:27.276 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:26:27.276 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:26:27.276 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:26:27.276 1 [error] <0.10995.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.10995.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:26:27.277 1 [error] <0.10996.1>@Undefined:Undefined:Undefined
gen_server <0.10996.1> terminated with reason: connection_down
2022-06-27 22:26:27.277 1 [error] <0.10996.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10996.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:26:27.278 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10995.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.13.130.184">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6913>,socket_mon =>
#Ref<0.155928093.3973578754.181071>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10996.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 22:26:27.278 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10996.1>,connection_down}
2022-06-27 22:26:30.147 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:26:37.177 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:26:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:26:37.178 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:26:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:26:37.179 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6636,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 22:26:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:26:37.278 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:26:37.536 1 [info] <0.10999.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:26:37.537 1 [info] <0.10999.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.10998.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:26:37.788 1 [error]
<0.10998.1>@http2_client:handle_settings:822 gen_server <0.10998.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:26:37.790 1 [error]
<0.10998.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.10998.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:26:37.790 1 [error] <0.10999.1>@Undefined:Undefined:Undefined
gen_server <0.10999.1> terminated with reason: connection_down
2022-06-27 22:26:37.791 1 [error] <0.10999.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.10999.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:26:37.791 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.10999.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 22:26:37.791 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:26:37.792 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:26:37.792 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:26:37.794 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10998.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"18.228.158.83">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6914>,socket_mon =>
#Ref<0.155928093.3973578754.181102>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.10999.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:26:37.794 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.10999.1>,connection_down}
2022-06-27 22:26:40.284 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:26:47.795 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:26:48.057 1 [info] <0.11012.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:26:48.059 1 [info] <0.11012.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.11011.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:26:48.312 1 [error] <0.11011.1>@http2_client:handle_settings:822
gen_server <0.11011.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:26:48.313 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11012.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 22:26:48.314 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:26:48.314 1 [error] <0.11011.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11011.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:26:48.314 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:26:48.314 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:26:48.314 1 [error] <0.11012.1>@Undefined:Undefined:Undefined
gen_server <0.11012.1> terminated with reason: connection_down
2022-06-27 22:26:48.315 1 [error] <0.11012.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11012.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:26:48.315 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11011.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.39.165.144">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6915>,socket_mon =>
#Ref<0.155928093.3973578754.181128>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11012.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>]],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:26:48.316 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11012.1>,connection_down}
2022-06-27 22:26:50.421 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:26:58.317 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:26:58.464 1 [info] <0.11015.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:26:58.466 1 [info] <0.11015.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.11014.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:26:58.602 1 [error] <0.11014.1>@http2_client:handle_settings:822
gen_server <0.11014.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:26:58.603 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11015.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```



```
{file,"miner_poc_grpc_client_statem.erl"},{line,721}}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 22:26:58.603 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:26:58.604 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:26:58.604 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:26:58.604 1 [error] <0.11014.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11014.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:26:58.604 1 [error] <0.11015.1>@Undefined:Undefined:Undefined
gen_server <0.11015.1> terminated with reason: connection_down
2022-06-27 22:26:58.605 1 [error] <0.11015.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11015.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:26:58.606 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11014.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.131.232.233">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6916>,socket_mon =>
#Ref<0.155928093.3973578754.181159>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11015.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:26:58.606 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11015.1>,connection_down} 2022-06-27
22:27:00.568 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:27:07.182 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:27:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:27:07.183 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:27:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:27:07.186 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6640,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:27:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:27:08.606 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:27:09.881 1 [info] <0.11018.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:27:09.882 1 [info] <0.11018.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

```
<<"3.39.165.144">>,http_connection => <0.11017.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:27:10.139 1 [error] <0.11017.1>@http2_client:handle_settings:822
gen_server <0.11017.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:27:10.142 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11018.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]}, {grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:27:10.142 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:27:10.143 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:27:10.143 1 [error] <0.11017.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11017.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:27:10.143 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

2022-06-27 22:27:10.144 1 [error] <0.11018.1>@Undefined:Undefined:Undefined  
gen\_server <0.11018.1> terminated with reason: connection\_down  
2022-06-27 22:27:10.144 1 [error] <0.11018.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.11018.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:27:10.146 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11017.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}],host => "3.39.165.144",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6917>,socket\_mon =>  
#Ref<0.155928093.3973578754.181191>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.11018.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}}  
2022-06-27 22:27:10.147 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11018.1>,connection\_down}  
2022-06-27 22:27:10.724 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:27:20.146 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.122.38.248":  
{gateway\_validators\_req\_v1\_pb,1}

```
2022-06-27 22:27:20.215 1 [info] <0.11028.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:27:20.217 1 [info] <0.11028.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.11027.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:27:20.274 1 [error] <0.11027.1>@http2_client:handle_settings:822
gen_server <0.11027.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:27:20.276 1 [error] <0.11027.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11027.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:27:20.277 1 [error] <0.11028.1>@Undefined:Undefined:Undefined
gen_server <0.11028.1> terminated with reason: connection_down
2022-06-27 22:27:20.277 1 [error] <0.11028.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11028.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:27:20.277 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11028.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 22:27:20.278 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:27:20.278 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:27:20.278 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:27:20.279 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11027.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6918>,socket_mon =>
#Ref<0.155928093.3973578754.181220>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11028.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:27:20.280 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11028.1>,connection_down} 2022-06-27
22:27:20.891 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
```

```
2022-06-27 22:27:21.719 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1643.0>
2022-06-27 22:27:30.280 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:27:30.347 1 [info] <0.11042.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:27:30.348 1 [info] <0.11042.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.11041.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:27:30.412 1 [error] <0.11041.1>@http2_client:handle_settings:822
gen_server <0.11041.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:27:30.415 1 [error] <0.11041.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11041.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:27:30.417 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11042.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:27:30.417 1 [error] <0.11042.1>@Undefined:Undefined:Undefined
gen_server <0.11042.1> terminated with reason: connection_down
2022-06-27 22:27:30.418 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:27:30.418 1 [error] <0.11042.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11042.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:27:30.419 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:27:30.420 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:27:30.422 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11041.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6919>,socket_mon =>
#Ref<0.155928093.3974365185.144289>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11042.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]}],
```



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{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]]}
2022-06-27 22:27:30.422 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11042.1>,connection_down} 2022-06-27
22:27:31.040 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:27:37.175 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:27:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:27:37.176 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:27:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:27:37.179 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6644,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:27:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:27:40.422 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:27:40.680 1 [info] <0.11045.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:27:40.683 1 [info] <0.11045.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.11044.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:27:40.937 1 [error] <0.11044.1>@http2_client:handle_settings:822
gen_server <0.11044.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 22:27:40.941 1 [error] <0.11044.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11044.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...} line 822
2022-06-27 22:27:40.942 1 [error] <0.11045.1>@Undefined:Undefined:Undefined
gen_server <0.11045.1> terminated with reason: connection_down
2022-06-27 22:27:40.944 1 [error] <0.11045.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11045.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:27:40.945 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11045.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:27:40.946 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:27:40.947 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:27:40.947 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:27:40.951 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11044.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6920>,socket_mon =>
#Ref<0.155928093.3974365185.144519>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11045.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:27:40.952 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11045.1>,connection_down} 2022-06-27
22:27:41.194 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:27:50.950 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:27:51.212 1 [info] <0.11051.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:27:51.215 1 [info] <0.11051.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.11050.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 22:27:51.324 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:27:51.464 1 [error] <0.11050.1>@http2_client:handle_settings:822
gen_server <0.11050.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:27:51.465 1 [error] <0.11050.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11050.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:27:51.466 1 [error] <0.11051.1>@Undefined:Undefined:Undefined
gen_server <0.11051.1> terminated with reason: connection_down
2022-06-27 22:27:51.466 1 [error] <0.11051.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11051.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:27:51.466 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11051.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:27:51.467 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:27:51.467 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:27:51.467 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
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validator failed: {error,req_failed}
2022-06-27 22:27:51.469 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11050.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6921>,socket_mon =>
#Ref<0.155928093.3974365185.144799>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11051.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:27:51.469 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11051.1>,connection_down}
2022-06-27 22:28:01.470 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:28:01.477 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:28:01.545 1 [info] <0.11057.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:28:01.547 1 [info] <0.11057.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.11056.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:28:01.615 1 [error] <0.11056.1>@http2_client:handle_settings:822
gen_server <0.11056.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:28:01.617 1 [error] <0.11056.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11056.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:28:01.617 1 [error] <0.11057.1>@Undefined:Undefined:Undefined
gen_server <0.11057.1> terminated with reason: connection_down
2022-06-27 22:28:01.617 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11057.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:28:01.618 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:28:01.618 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

2022-06-27 22:28:01.618 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:28:01.618 1 [error] <0.11057.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.11057.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:28:01.619 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11056.1>,{function\_clause,

[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"52.210.14.128">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "52.210.14.128",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6922>,socket\_mon =>  
#Ref<0.155928093.3974365185.145055>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.11057.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:28:01.619 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11057.1>,connection\_down}

2022-06-27 22:28:07.177 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:28:07 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152

```
2022-06-27 22:28:07.178 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:28:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:28:07.180 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6648,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:28:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:28:11.621 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:28:11.627 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:28:11.841 1 [info] <0.11060.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:28:11.842 1 [info] <0.11060.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.11059.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:28:12.056 1 [error] <0.11059.1>@http2_client:handle_settings:822
gen_server <0.11059.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:28:12.057 1 [error] <0.11059.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11059.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:28:12.057 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```



```
{gen_server,call,[<0.11060.1>,{rcv,10000},infinity]]}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:28:12.058 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:28:12.058 1 [error] <0.11060.1>@Undefined:Undefined:Undefined
gen_server <0.11060.1> terminated with reason: connection_down
2022-06-27 22:28:12.058 1 [error] <0.11060.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11060.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:28:12.059 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:28:12.059 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:28:12.060 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11059.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"52.220.227.216">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6923>,socket_mon =>
#Ref<0.155928093.3974365185.145277>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11060.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:28:12.061 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11060.1>,connection_down} 2022-06-27
22:28:21.767 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:28:22.061 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:28:22.320 1 [info] <0.11064.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:28:22.321 1 [info] <0.11064.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.11063.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:28:22.578 1 [error] <0.11063.1>@http2_client:handle_settings:822
gen_server <0.11063.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:28:22.579 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11064.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:28:22.579 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:28:22.580 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:28:22.580 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:28:22.580 1 [error]
<0.11063.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.11063.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:28:22.581 1 [error] <0.11064.1>@Undefined:Undefined:Undefined
gen_server <0.11064.1> terminated with reason: connection_down
2022-06-27 22:28:22.581 1 [error] <0.11064.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11064.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:28:22.582 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11063.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6924>,socket_mon =>
#Ref<0.155928093.3974365185.145522>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11064.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:28:22.583 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11064.1>,connection_down} 2022-06-27
22:28:31.918 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:28:32.583 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:28:32.901 1 [info] <0.11081.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:28:32.902 1 [info] <0.11081.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.11080.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:28:33.212 1 [error] <0.11080.1>@http2_client:handle_settings:822
gen_server <0.11080.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:28:33.213 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11081.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:28:33.213 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:28:33.214 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:28:33.214 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:28:33.214 1 [error] <0.11080.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11080.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:28:33.215 1 [error] <0.11081.1>@Undefined:Undefined:Undefined
gen_server <0.11081.1> terminated with reason: connection_down
2022-06-27 22:28:33.216 1 [error] <0.11081.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11081.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:28:33.218 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11080.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6925>,socket_mon =>
#Ref<0.155928093.3974365185.145940>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11081.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:28:33.218 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11081.1>,connection_down}
2022-06-27 22:28:37.181 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:28:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:28:37.181 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:28:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:28:37.183 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6652,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:28:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:28:42.068 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833

2022-06-27 22:28:43.217 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.132.190.192":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 22:28:43.368 1 [info] <0.11084.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 22:28:43.370 1 [info] <0.11084.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"3.132.190.192">>,http\_connection => <0.11083.1>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}},name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 22:28:43.514 1 [error] <0.11083.1>@http2\_client:handle\_settings:822 gen\_server <0.11083.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 22:28:43.516 1 [error] <0.11083.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.11083.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 22:28:43.516 1 [error] <0.11084.1>@Undefined:Undefined:Undefined gen\_server <0.11084.1> terminated with reason: connection\_down

2022-06-27 22:28:43.517 1 [error] <0.11084.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.11084.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:28:43.518 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.11084.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}],{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,

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[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:28:43.518 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:28:43.519 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:28:43.520 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:28:43.524 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11083.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6926>,socket_mon =>
#Ref<0.155928093.3973578754.181440>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11084.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}}
```



2022-06-27 22:28:43.525 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11084.1>,connection\_down} 2022-06-27 22:28:52.211 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:28:53.522 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.89.130.114": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 22:28:53.735 1 [info] <0.11088.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 22:28:53.736 1 [info] <0.11088.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"52.89.130.114">>,http\_connection => <0.11087.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[[],[]]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 22:28:53.943 1 [error] <0.11087.1>@http2\_client:handle\_settings:822 gen\_server <0.11087.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 22:28:53.944 1 [error] <0.11087.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.11087.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 22:28:53.945 1 [error] <0.11088.1>@Undefined:Undefined:Undefined gen\_server <0.11088.1> terminated with reason: connection\_down

2022-06-27 22:28:53.945 1 [error] <0.11088.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.11088.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:28:53.946 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.11088.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6,

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[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 22:28:53.946 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:28:53.947 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:28:53.947 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:28:53.948 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11087.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6927>,socket_mon =>
#Ref<0.155928093.3973578754.181476>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11088.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[[file,"http2_client.erl"],{line,822}]]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 22:28:53.949 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11088.1>,connection_down} 2022-06-27
22:29:02.371 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:29:03.950 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:29:04.167 1 [info] <0.11095.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:29:04.169 1 [info] <0.11095.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.11094.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:29:04.375 1 [error] <0.11094.1>@http2_client:handle_settings:822
gen_server <0.11094.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:29:04.376 1 [error]
<0.11094.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.11094.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:29:04.377 1 [error] <0.11095.1>@Undefined:Undefined:Undefined
gen_server <0.11095.1> terminated with reason: connection_down
2022-06-27 22:29:04.379 1 [error] <0.11095.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11095.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 22:29:04.378 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11095.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:29:04.379 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 22:29:04.380 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 22:29:04.380 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 22:29:04.384 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11094.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6928>,socket_mon =>
#Ref<0.155928093.3973578754.181506>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11095.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 22:29:04.385 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11095.1>,connection_down} 2022-06-27
22:29:07.187 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:29:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:29:07.188 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:29:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:29:07.189 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6656,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:29:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:29:12.515 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:29:14.383 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:29:14.532 1 [info] <0.11098.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:29:14.533 1 [info] <0.11098.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.11097.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:29:14.679 1 [error] <0.11097.1>@http2_client:handle_settings:822
gen_server <0.11097.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:29:14.681 1 [error] <0.11097.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11097.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:29:14.682 1 [error] <0.11098.1>@Undefined:Undefined:Undefined
gen_server <0.11098.1> terminated with reason: connection_down
2022-06-27 22:29:14.683 1 [error] <0.11098.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11098.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:29:14.684 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11098.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:29:14.684 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:29:14.685 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:29:14.685 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 22:29:14.689 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11097.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096, [{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"3.132.190.192">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.132.190.192",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6929>,socket\_mon => #Ref<0.155928093.3973578754.181558>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.11098.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2, [{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4, [{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6, [{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]}]}]}  
2022-06-27 22:29:14.690 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11098.1>,connection\_down} 2022-06-27 22:29:22.671 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:29:24.687 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.237.155.172":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:29:25.005 1 [info] <0.11102.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 22:29:25.006 1 [info] <0.11102.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression =>

```
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.11101.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:29:25.321 1 [error] <0.11101.1>@http2_client:handle_settings:822
gen_server <0.11101.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:29:25.323 1 [error] <0.11101.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11101.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:29:25.324 1 [error] <0.11102.1>@Undefined:Undefined:Undefined
gen_server <0.11102.1> terminated with reason: connection_down
2022-06-27 22:29:25.324 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11102.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:29:25.324 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:29:25.324 1 [error] <0.11102.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11102.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```



2022-06-27 22:29:25.325 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 22:29:25.326 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:29:25.328 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11101.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {56, {<<":authority">>,<<"13.237.155.172">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "13.237.155.172",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6930>,socket\_mon => #Ref<0.155928093.3974365185.147119>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.11102.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:29:25.329 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11102.1>,connection\_down}

2022-06-27 22:29:32.814 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:29:35.327 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.228.115.118":

```
{gateway_validators_req_v1_pb,1}
2022-06-27 22:29:35.589 1 [info] <0.11118.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:29:35.590 1 [info] <0.11118.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.11115.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:29:35.847 1 [error] <0.11115.1>@http2_client:handle_settings:822
gen_server <0.11115.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:29:35.849 1 [error] <0.11115.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11115.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:29:35.849 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11118.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:29:35.849 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 22:29:35.850 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:29:35.850 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:29:35.850 1 [error] <0.11118.1>@Undefined:Undefined:Undefined
gen_server <0.11118.1> terminated with reason: connection_down
2022-06-27 22:29:35.850 1 [error] <0.11118.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11118.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:29:35.851 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11115.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6931>,socket_mon =>
#Ref<0.155928093.3974365185.147521>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11118.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:29:35.852 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11118.1>,connection_down}
2022-06-27 22:29:37.181 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:29:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:29:37.182 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:29:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:29:37.183 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6660,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:29:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:29:42.954 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:29:45.852 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:29:46.114 1 [info] <0.11123.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:29:46.115 1 [info] <0.11123.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.11122.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:29:46.373 1 [error] <0.11122.1>@http2_client:handle_settings:822
gen_server <0.11122.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:29:46.375 1 [error] <0.11122.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11122.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:29:46.375 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11123.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:29:46.375 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:29:46.376 1 [error] <0.11123.1>@Undefined:Undefined:Undefined
gen_server <0.11123.1> terminated with reason: connection_down
2022-06-27 22:29:46.376 1 [error] <0.11123.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11123.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:29:46.377 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:29:46.377 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:29:46.378 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11122.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6932>,socket_mon =>
#Ref<0.155928093.3974365185.147791>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11123.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:29:46.379 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11123.1>,connection_down}
2022-06-27 22:29:53.101 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:29:56.380 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:29:56.602 1 [info] <0.11126.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:29:56.604 1 [info] <0.11126.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.11125.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:29:56.818 1 [error] <0.11125.1>@http2_client:handle_settings:822
gen_server <0.11125.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 22:29:56.820 1 [error] <0.11125.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11125.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 22:29:56.822 1 [error] <0.11126.1>@Undefined:Undefined:Undefined
gen_server <0.11126.1> terminated with reason: connection_down
2022-06-27 22:29:56.822 1 [error] <0.11126.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11126.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:29:56.823 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11126.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:29:56.823 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:29:56.824 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:29:56.824 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:29:56.826 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11125.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"52.220.227.216">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6933>,socket_mon =>
#Ref<0.155928093.3974365185.148032>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11126.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:29:56.827 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11126.1>,connection_down}
2022-06-27 22:30:03.241 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:30:06.827 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:30:06.893 1 [info] <0.11134.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:30:06.894 1 [info] <0.11134.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.11133.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => [],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```



miner\_poc\_grpc\_client\_handler

2022-06-27 22:30:06.974 1 [error] <0.11133.1>@http2\_client:handle\_settings:822  
gen\_server <0.11133.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 22:30:06.976 1 [error] <0.11133.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.11133.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 22:30:06.977 1 [error] <0.11134.1>@Undefined:Undefined:Undefined  
gen\_server <0.11134.1> terminated with reason: connection\_down

2022-06-27 22:30:06.979 1 [error] <0.11134.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.11134.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:30:06.980 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.11134.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]]

2022-06-27 22:30:06.980 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 22:30:06.981 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 22:30:06.981 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 22:30:06.984 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11133.1>,{function_clause,
[ {http2_client,handle_settings,
[ [],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {54,
{<<":authority">>,<<"3.122.38.248">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6934>,socket_mon =>
#Ref<0.155928093.3974365185.148365>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11134.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}]}
2022-06-27 22:30:06.984 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11134.1>,connection_down}
2022-06-27 22:30:07.186 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:30:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:30:07.187 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:30:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:30:07.190 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=6664,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:30:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:30:13.391 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:30:16.984 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:30:17.061 1 [info] <0.11137.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:30:17.063 1 [info] <0.11137.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.11136.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:30:17.128 1 [error] <0.11136.1>@http2_client:handle_settings:822
gen_server <0.11136.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:30:17.129 1 [error] <0.11136.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11136.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:30:17.131 1 [error] <0.11137.1>@Undefined:Undefined:Undefined
gen_server <0.11137.1> terminated with reason: connection_down
2022-06-27 22:30:17.131 1 [error] <0.11137.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11137.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:30:17.132 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11137.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:30:17.132 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:30:17.132 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:30:17.133 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:30:17.134 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11136.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6935>,socket_mon =>
#Ref<0.155928093.3973578754.181673>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11137.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
```

```
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:30:17.134 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11137.1>,connection_down}
2022-06-27 22:30:23.534 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:30:24.008 1 [info] <0.1662.0>@blockchain_worker:start_sync:
{888,13} new block sync starting with Pid: <0.11139.1>, Ref:
#Ref<0.155928093.3974365185.148764>, Peer: "/p2p/
112tdsVrSQ6Gugmez8Smpzd4MJujMqHhYZHnVxyhaygAggtCjAgs"
2022-06-27 22:30:25.166 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112tdsVrSQ6Gugmez8Smpzd4MJujMqHhYZHnVxyhaygAggtCjAgs" informed us of
our observed address "/ip4/80.77.186.186/tcp/56299"
2022-06-27 22:30:27.135 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:30:27.398 1 [info] <0.11166.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:30:27.399 1 [info] <0.11166.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.11156.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:30:27.655 1 [error] <0.11156.1>@http2_client:handle_settings:822
gen_server <0.11156.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:30:27.656 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.11166.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:30:27.656 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:30:27.656 1 [error] <0.11156.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11156.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:30:27.657 1 [error] <0.11166.1>@Undefined:Undefined:Undefined
gen_server <0.11166.1> terminated with reason: connection_down
2022-06-27 22:30:27.657 1 [error] <0.11166.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11166.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:30:27.658 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:30:27.658 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:30:27.661 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11156.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "13.209.94.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6946>,socket_mon =>
#Ref<0.155928093.3974365185.149021>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11166.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 22:30:27.662 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11166.1>,connection_down}
2022-06-27 22:30:27.930 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11yngEw1wwArMQsqLrxcMphziTTk4TbZK2vLx4NM88njF1vNsi" informed us of
our observed address "/ip4/80.77.186.186/tcp/23615"
2022-06-27 22:30:33.677 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:30:35.597 1 [info]
<0.11150.1>@blockchain_sync_handler:handle_data:{132,5} adding sync blocks
[1409926,1409927,1409928,1409929,1409930]
2022-06-27 22:30:37.185 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:30:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:30:37.187 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:30:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:30:37.190 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6668,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:30:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:30:37.662 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:30:37.935 1 [info] <0.11182.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:30:37.937 1 [info] <0.11182.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.11181.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:30:38.149 1 [error] <0.11181.1>@http2_client:handle_settings:822
gen_server <0.11181.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:30:38.151 1 [error] <0.11181.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11181.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:30:38.151 1 [error] <0.11182.1>@Undefined:Undefined:Undefined
gen_server <0.11182.1> terminated with reason: connection_down
2022-06-27 22:30:38.152 1 [error] <0.11182.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11182.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:30:38.152 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11182.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```



```
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 22:30:38.153 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:30:38.153 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:30:38.153 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:30:38.155 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11181.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{55,
{<<":authority">>,<<"52.89.130.114">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6947>,socket_mon =>
#Ref<0.155928093.3974365185.149526>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11182.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[file,"http2_client.erl"],{line,822}]],
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:30:38.155 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11182.1>,connection_down} 2022-06-27
22:30:38.217 1 [info] <0.11150.1>@blockchain_sync_handler:handle_data:{142,13}
Eagerly re-gossiping 1409930
2022-06-27 22:30:39.802 1 [info] <0.11184.1>@blockchain_txn:validate:{299,5}
valid: [], invalid: []
2022-06-27 22:30:39.885 1 [info] <0.11193.1>@blockchain_txn:absorb:{578,21}
took 33 ms to absorb blockchain_txn_payment_v1
2022-06-27 22:30:40.221 1 [info] <0.11193.1>@blockchain_txn:absorb:{578,21}
took 315 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 22:30:40.324 1 [info] <0.11184.1>@blockchain_txn:absorb:{578,21}
took 393 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 22:30:40.615 1 [info] <0.11193.1>@blockchain_txn:absorb:{578,21}
took 393 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 22:30:40.661 1 [info] <0.11193.1>@blockchain_txn:absorb:{578,21}
took 46 ms to absorb blockchain_txn_validator_heartbeat_v1
2022-06-27 22:30:40.765 1 [info] <0.11184.1>@blockchain_txn:absorb:{578,21}
took 440 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 22:30:40.818 1 [info] <0.11193.1>@blockchain_txn:absorb:{578,21}
took 82 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:30:40.845 1 [info] <0.11193.1>@blockchain_txn:absorb:{578,21}
took 27 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:30:40.882 1 [info] <0.11193.1>@blockchain_txn:absorb:{578,21}
took 36 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:30:40.930 1 [info] <0.11193.1>@blockchain_txn:absorb:{578,21}
took 48 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:30:40.986 1 [info] <0.11193.1>@blockchain_txn:absorb:{578,21}
took 55 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:30:41.036 1 [info] <0.11193.1>@blockchain_txn:absorb:{578,21}
took 50 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:30:41.183 1 [info] <0.11184.1>@blockchain_txn:absorb:{578,21}
took 418 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 22:30:41.212 1 [info] <0.11193.1>@blockchain_txn:absorb:{578,21}
took 174 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:30:41.289 1 [info] <0.11193.1>@blockchain_txn:absorb:{578,21}
took 76 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:30:41.353 1 [info] <0.11193.1>@blockchain_txn:absorb:{578,21}
took 61 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:30:41.394 1 [info] <0.11193.1>@blockchain_txn:absorb:{578,21}
```

took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:41.427 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:41.463 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:41.507 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:41.555 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:41.626 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:41.674 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 491 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 22:30:41.684 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:41.752 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:41.803 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:41.842 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:41.890 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:41.946 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:42.001 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:42.068 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:42.119 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:42.158 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 484 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 22:30:42.184 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_validator\_heartbeat\_v1  
2022-06-27 22:30:42.206 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:42.234 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:42.255 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_validator\_heartbeat\_v1  
2022-06-27 22:30:42.264 1 [info] <0.11193.1>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:42.443 1 [info]

<0.11193.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected 241 POCs for block height 1409875  
2022-06-27 22:30:42.592 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:42.653 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:42.720 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:42.791 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:42.853 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:42.935 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 81 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:43.014 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:43.068 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:43.107 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:43.169 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:43.222 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:43.267 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:43.341 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:43.410 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:43.482 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:43.535 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:43.586 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:43.645 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:43.684 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:43.760 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:43.818 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:43.834 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:30:43.867 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:43.944 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:44.042 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 97 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:44.108 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:44.159 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:44.239 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 80 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:44.337 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 98 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:44.430 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:44.534 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 104 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:44.617 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 83 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:44.659 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:44.691 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:44.733 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:44.785 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:44.856 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:44.898 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:44.955 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:45.013 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:45.106 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:45.168 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:45.233 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}

took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:45.298 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:45.351 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:45.412 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:45.458 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:45.510 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:45.566 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:45.641 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:45.720 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:45.786 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:45.837 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:45.869 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:45.934 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.010 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.062 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.125 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.222 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 97 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.266 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.303 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.345 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.419 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.511 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 91 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.592 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}

took 81 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.620 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.716 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.746 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.795 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.854 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.913 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:46.978 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.035 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.080 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.134 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.174 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.238 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.300 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.354 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.408 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.462 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.523 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.584 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.621 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.678 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.739 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.792 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}

took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.835 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.884 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.913 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.939 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:47.980 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:48.014 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:48.071 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:48.127 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:48.155 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "13.215.75.202":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:30:48.177 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:48.218 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:48.288 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:48.378 1 [info] <0.11201.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 22:30:48.380 1 [info] <0.11201.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"13.215.75.202">>,http\_connection => <0.11200.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[ ]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 22:30:48.384 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 96 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:48.439 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:48.515 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}



took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:48.593 1 [error]  
<0.11200.1>@http2\_client:handle\_settings:822 gen\_server <0.11200.1> terminated  
with reason: no function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 22:30:48.594 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.11201.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]]  
2022-06-27 22:30:48.594 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 22:30:48.594 1 [error]  
<0.11200.1>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.11200.1> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 22:30:48.594 1 [error] <0.11201.1>@Undefined:Undefined:Undefined  
gen\_server <0.11201.1> terminated with reason: connection\_down  
2022-06-27 22:30:48.595 1 [error] <0.11201.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.11201.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:30:48.595 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 22:30:48.595 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 22:30:48.597 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11200.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6948>,socket_mon =>
#Ref<0.155928093.3974365185.151579>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11201.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 22:30:48.598 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11201.1>,connection_down} 2022-06-27
22:30:48.610 1 [info] <0.11184.1>@blockchain_txn:absorb:{578,21} took 75 ms to
absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:30:48.679 1 [info] <0.11184.1>@blockchain_txn:absorb:{578,21}
took 65 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:30:48.725 1 [info] <0.11184.1>@blockchain_txn:absorb:{578,21}
took 42 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:30:48.804 1 [info] <0.11184.1>@blockchain_txn:absorb:{578,21}
took 79 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:30:48.892 1 [info] <0.11184.1>@blockchain_txn:absorb:{578,21}
took 88 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:30:48.972 1 [info] <0.11184.1>@blockchain_txn:absorb:{578,21}
took 80 ms to absorb blockchain_txn_poc_receipts_v2
```

2022-06-27 22:30:49.033 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:49.069 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:49.110 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:49.186 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:49.236 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:49.300 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:49.362 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:49.408 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:49.476 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:49.547 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:49.617 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:49.679 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:49.751 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:49.790 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:49.868 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:49.940 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.009 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.058 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.109 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.165 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.238 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.301 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:50.348 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.421 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.499 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.540 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.583 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.627 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.675 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.717 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.791 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.854 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.920 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:50.979 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:51.044 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:51.100 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:51.153 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:51.221 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:51.269 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:51.315 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:51.386 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:51.480 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 94 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:51.530 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:30:51.598 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:51.694 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 96 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:51.759 1 [info] <0.11184.1>@blockchain\_txn:absorb:{578,21} took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:30:51.908 1 [info] <0.11184.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected 212 POCs for block height 1409926

2022-06-27 22:30:52.088 1 [error] emulator@Undefined:Undefined:Undefined Error in process <0.11184.1> on node 'miner@127.0.0.1' with exit value:   
{{badmatch,{error,{error,"Corruption: block checksum mismatch: stored = 1975174337, computed = 3807013015 in /var/data/blockchain.db/015769.sst offset 486887 size 514635"}},[{blockchain,save\_block,2,[{file,"blockchain.erl"},{line,2535}]},{blockchain,'-add\_block\_/3-fun-0-',5,[{file,"blockchain.erl"},{line,1136}]},{blockchain\_txn,unvalidated\_absorb\_and\_commit,4,[{file,"blockchain\_txn.erl"},{line,508}]},{blockchain,add\_block\_,3,[{file,"blockchain.erl"},{line,1157}]},{blockchain,'-check\_plausible\_blocks/2-fun-1-',4,[{file,"blockchain.erl"},{line,2989}]},{lists,foreach,2,[{file,"lists.erl"},{line,1342}]},{blockchain,check\_plausible\_blocks,2,[{file,"blockchain.erl"},{line,2983}]}}}

2022-06-27 22:30:52.117 1 [info] <0.1662.0>@blockchain\_worker:handle\_info:{673,53} block sync down: normal

2022-06-27 22:30:53.961 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:30:57.299 1 [info] <0.1636.0>@libp2p\_peerbook:notify\_peers:{726,5} gossiping out 3 notify peers

2022-06-27 22:30:58.597 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.72.215.7":   
{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 22:30:58.663 1 [info] <0.11206.1>@grpc\_client\_stream\_custom:init:{131,9} init stream for RPC validators and type unary

2022-06-27 22:30:58.665 1 [info] <0.11206.1>@grpc\_client\_stream\_custom:init:{133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"3.72.215.7">>,http\_connection => <0.11205.1>,scheme => <<"http">>,encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler

2022-06-27 22:30:58.721 1 [error] <0.11205.1>@http2\_client:handle\_settings:822 gen\_server <0.11205.1> terminated with reason: no function clause matching

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:30:58.722 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11206.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:30:58.722 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:30:58.723 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:30:58.723 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:30:58.723 1 [error] <0.11205.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11205.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:30:58.724 1 [error] <0.11206.1>@Undefined:Undefined:Undefined
gen_server <0.11206.1> terminated with reason: connection_down
2022-06-27 22:30:58.724 1 [error] <0.11206.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11206.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:30:58.725 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11205.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6949>,socket_mon =>
#Ref<0.155928093.3974365185.152280>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11206.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:30:58.725 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11206.1>,connection_down}
2022-06-27 22:31:04.118 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:31:07.193 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:31:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:31:07.193 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:31:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:31:07.194 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

```
ed=6672,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:31:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:31:08.725 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:31:08.798 1 [info] <0.11209.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:31:08.799 1 [info] <0.11209.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.11208.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:31:08.867 1 [error] <0.11208.1>@http2_client:handle_settings:822
gen_server <0.11208.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:31:08.868 1 [error] <0.11208.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11208.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:31:08.869 1 [error] <0.11209.1>@Undefined:Undefined:Undefined
gen_server <0.11209.1> terminated with reason: connection_down
2022-06-27 22:31:08.870 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11209.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```



```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:31:08.870 1 [error] <0.11209.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11209.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:31:08.870 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:31:08.871 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:31:08.871 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:31:08.872 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11208.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6950>,socket_mon =>
#Ref<0.155928093.3974365185.152488>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11209.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]}],
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 22:31:08.872 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11209.1>,connection_down}
2022-06-27 22:31:14.264 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:31:18.874 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:31:19.089 1 [info] <0.11212.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:31:19.090 1 [info] <0.11212.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.11211.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:31:19.301 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11212.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[[{file,"gen_statem.erl"},{line,1203}]]},
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 22:31:19.301 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:31:19.302 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:31:19.302 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:31:19.303 1 [error] <0.11211.1>@http2_client:handle_settings:822
gen_server <0.11211.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:31:19.304 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11211.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6951>,socket_mon =>
#Ref<0.155928093.3973054468.224848>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11212.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:31:19.304 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11212.1>,connection_down}
2022-06-27 22:31:19.304 1 [error] <0.11211.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.11211.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:31:19.305 1 [error] <0.11212.1>@Undefined:Undefined:Undefined
gen_server <0.11212.1> terminated with reason: connection_down
2022-06-27 22:31:19.305 1 [error] <0.11212.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11212.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:31:24.397 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:31:29.304 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:31:29.520 1 [info] <0.11217.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:31:29.521 1 [info] <0.11217.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.11216.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:31:29.732 1 [error] <0.11216.1>@http2_client:handle_settings:822
gen_server <0.11216.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:31:29.734 1 [error] <0.11216.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11216.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:31:29.734 1 [error] <0.11217.1>@Undefined:Undefined:Undefined
gen_server <0.11217.1> terminated with reason: connection_down
2022-06-27 22:31:29.735 1 [error] <0.11217.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.11217.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:31:29.735 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.11217.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 22:31:29.735 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 22:31:29.735 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 22:31:29.735 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:31:29.737 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11216.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[],},encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{53,  
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "54.70.239.5",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

```
16384},server_window => 65528,socket => #Port<0.6952>,socket_mon =>
#Ref<0.155928093.3973054468.224863>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11217.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:31:29.737 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11217.1>,connection_down} 2022-06-27
22:31:34.541 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:31:37.186 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:31:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:31:37.186 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:31:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:31:37.188 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6676,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:31:37 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:31:39.738 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:31:39.962 1 [info] <0.11220.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:31:39.963 1 [info] <0.11220.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.11219.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:31:40.179 1 [error] <0.11219.1>@http2_client:handle_settings:822
gen_server <0.11219.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:31:40.179 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11220.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:31:40.180 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:31:40.180 1 [error] <0.11219.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11219.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:31:40.181 1 [error] <0.11220.1>@Undefined:Undefined:Undefined
gen_server <0.11220.1> terminated with reason: connection_down
2022-06-27 22:31:40.181 1 [error] <0.11220.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11220.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:31:40.182 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

2022-06-27 22:31:40.182 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:31:40.184 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11219.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"54.251.77.229">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "54.251.77.229",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6953>,socket\_mon => #Ref<0.155928093.3974365185.153155>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.11220.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:31:40.185 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11220.1>,connection\_down} 2022-06-27 22:31:44.685 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:31:50.185 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.220.227.216": {gateway\_validators\_req\_v1\_pb,1}

2022-06-27 22:31:50.408 1 [info] <0.11223.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary

2022-06-27 22:31:50.410 1 [info] <0.11223.1>@grpc\_client\_stream\_custom:init:



```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.11222.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:31:50.625 1 [error] <0.11222.1>@http2_client:handle_settings:822
gen_server <0.11222.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:31:50.626 1 [error] <0.11222.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11222.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:31:50.626 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11223.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:31:50.627 1 [error] <0.11223.1>@Undefined:Undefined:Undefined
gen_server <0.11223.1> terminated with reason: connection_down
2022-06-27 22:31:50.627 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:31:50.627 1 [error] <0.11223.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11223.1> with 0 neighbours exited with reason:
```

connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:31:50.628 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 22:31:50.628 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:31:50.629 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11222.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,  
{<<":authority">>,<<"52.220.227.216">>}}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "52.220.227.216",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6954>,socket\_mon =>  
#Ref<0.155928093.3974365185.153377>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.11223.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]  
2022-06-27 22:31:50.630 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11223.1>,connection\_down} 2022-06-27  
22:31:54.827 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5}  
PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:32:00.631 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "54.207.131.103":

```
{gateway_validators_req_v1_pb,1}
2022-06-27 22:32:00.891 1 [info] <0.11231.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:32:00.893 1 [info] <0.11231.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.11230.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:32:01.168 1 [error] <0.11230.1>@http2_client:handle_settings:822
gen_server <0.11230.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:32:01.171 1 [error] <0.11230.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11230.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:32:01.172 1 [error] <0.11231.1>@Undefined:Undefined:Undefined
gen_server <0.11231.1> terminated with reason: connection_down
2022-06-27 22:32:01.173 1 [error] <0.11231.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11231.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:32:01.175 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11231.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 22:32:01.175 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:32:01.176 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:32:01.176 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:32:01.179 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11230.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6955>,socket_mon =>
#Ref<0.155928093.3974365185.153641>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11231.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 22:32:01.180 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11231.1>,connection_down}
2022-06-27 22:32:04.977 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:32:07.194 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:32:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:32:07.195 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:32:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:32:07.196 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6680,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:32:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:32:08.759 1 [warning]
<0.1639.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/p2p/
11G5BdyMyvk5mPSTGxWANsEvKEkM51nMKKeZcPxbic7oMUJi96gs": [{"/
ip4/213.14.150.193/tcp/44158",econnrefused}]
2022-06-27 22:32:11.179 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:32:11.398 1 [info] <0.11255.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:32:11.400 1 [info] <0.11255.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.11254.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:32:11.605 1 [error] <0.11254.1>@http2_client:handle_settings:822
gen_server <0.11254.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:32:11.606 1 [error] <0.11254.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11254.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:32:11.606 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11255.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:32:11.607 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:32:11.607 1 [error] <0.11255.1>@Undefined:Undefined:Undefined
gen_server <0.11255.1> terminated with reason: connection_down
2022-06-27 22:32:11.607 1 [error] <0.11255.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11255.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:32:11.607 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:32:11.607 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:32:11.609 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11254.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6961>,socket_mon =>
#Ref<0.155928093.3974365185.154029>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11255.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:32:11.609 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11255.1>,connection_down} 2022-06-27
22:32:15.144 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:32:21.610 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:32:21.722 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1639.0>
2022-06-27 22:32:21.871 1 [info] <0.11259.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:32:21.872 1 [info] <0.11259.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.11257.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:32:22.124 1 [error] <0.11257.1>@http2_client:handle_settings:822
gen_server <0.11257.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:32:22.126 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11259.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:32:22.126 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:32:22.126 1 [error] <0.11257.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11257.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:32:22.127 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:32:22.127 1 [error] <0.11259.1>@Undefined:Undefined:Undefined
gen_server <0.11259.1> terminated with reason: connection_down
2022-06-27 22:32:22.127 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:32:22.127 1 [error] <0.11259.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11259.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```



2022-06-27 22:32:22.129 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11257.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"54.207.131.103">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6962>,socket_mon =>
#Ref<0.155928093.3974365185.154244>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11259.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 22:32:22.129 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11259.1>,connection_down} 2022-06-27
22:32:25.288 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
```

2022-06-27 22:32:32.130 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 22:32:32.448 1 [info] <0.11262.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 22:32:32.450 1 [info] <0.11262.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>},http_connection => <0.11261.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:32:32.758 1 [error] <0.11261.1>@http2_client:handle_settings:822
gen_server <0.11261.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:32:32.759 1 [error] <0.11261.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11261.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:32:32.760 1 [error] <0.11262.1>@Undefined:Undefined:Undefined
gen_server <0.11262.1> terminated with reason: connection_down
2022-06-27 22:32:32.760 1 [error] <0.11262.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11262.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:32:32.760 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11262.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:32:32.760 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:32:32.761 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 22:32:32.761 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:32:32.762 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11261.1>,{function\_clause,

[{http2\_client,handle\_settings,

[[],0,<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

{state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42,

{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,

{<<"content-type">>,<<"application/grpc+proto">>}},{56,

{<<":authority">>,<<"13.237.155.172">>}},{63,<<":path">>,<<"/helium.gateway/

validators">>}]}},host => "13.237.155.172",last\_stream => 1,owner =>

<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size

=> 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},server\_window => 65528,socket => #Port<0.6963>,socket\_mon =>

#Ref<0.155928093.3974365185.154481>,state => open,stream\_count =>

1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>

1,owner => <0.11262.1>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>}},timeout => 3000,transport =>

gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}},

{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]},

{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]},

{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]},

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}

2022-06-27 22:32:32.763 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11262.1>,connection\_down} 2022-06-27

22:32:35.444 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5}

PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:32:37.199 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA

#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>

0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>

<<"2022-06-27 22:32:37 GMT">>,<<"txnb">> => 0}} from

12291671073248440251 on 35152

```
2022-06-27 22:32:37.200 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:32:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:32:37.203 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6684,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:32:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:32:42.764 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:32:43.027 1 [info] <0.11265.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:32:43.030 1 [info] <0.11265.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.11264.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:32:43.284 1 [error]
<0.11264.1>@http2_client:handle_settings:822 gen_server <0.11264.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:32:43.285 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11265.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:32:43.285 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:32:43.286 1 [error]
<0.11264.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.11264.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:32:43.286 1 [error] <0.11265.1>@Undefined:Undefined:Undefined
gen_server <0.11265.1> terminated with reason: connection_down
2022-06-27 22:32:43.287 1 [error] <0.11265.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11265.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:32:43.287 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:32:43.288 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:32:43.289 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11264.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},server_window => 65528,socket => #Port<0.6964>,socket_mon =>
#Ref<0.155928093.3974365185.154720>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11265.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl"},{line,226}}}]}}}
2022-06-27 22:32:43.290 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11265.1>,connection_down}
2022-06-27 22:32:45.594 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:32:53.291 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:32:53.607 1 [info] <0.11268.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:32:53.610 1 [info] <0.11268.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.11267.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:32:53.920 1 [error] <0.11267.1>@http2_client:handle_settings:822
gen_server <0.11267.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:32:53.922 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11268.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{{file,"grpc_client_stream_custom.erl"},{line,418}}],{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 22:32:53.922 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:32:53.923 1 [error] <0.11267.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11267.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:32:53.924 1 [error] <0.11268.1>@Undefined:Undefined:Undefined
gen_server <0.11268.1> terminated with reason: connection_down
2022-06-27 22:32:53.925 1 [error] <0.11268.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11268.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:32:53.926 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:32:53.927 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:32:53.930 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11267.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
```

```
{<<":authority">>,<<"13.211.55.217">>},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6965>,socket_mon =>
#Ref<0.155928093.3974365185.154948>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11268.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 22:32:53.930 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11268.1>,connection_down}
2022-06-27 22:32:55.737 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:33:03.930 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:33:04.078 1 [info] <0.11276.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:33:04.079 1 [info] <0.11276.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.11275.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:33:04.223 1 [error] <0.11275.1>@http2_client:handle_settings:822
gen_server <0.11275.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```



```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:33:04.224 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11276.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:33:04.224 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:33:04.225 1 [error] <0.11275.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11275.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:33:04.225 1 [error] <0.11276.1>@Undefined:Undefined:Undefined
gen_server <0.11276.1> terminated with reason: connection_down
2022-06-27 22:33:04.226 1 [error] <0.11276.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11276.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:33:04.227 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:33:04.227 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:33:04.231 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11275.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6966>,socket_mon =>
#Ref<0.155928093.3974365185.155265>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11276.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:33:04.233 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11276.1>,connection_down}
2022-06-27 22:33:05.878 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:33:07.195 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:33:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:33:07.195 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:33:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:33:07.197 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6688,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:33:07 GMT">>,<<"txnb">> => 0}
```

```
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:33:14.230 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:33:14.548 1 [info] <0.11299.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:33:14.550 1 [info] <0.11299.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.11298.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:33:14.865 1 [error] <0.11298.1>@http2_client:handle_settings:822
gen_server <0.11298.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:33:14.865 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11299.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:33:14.866 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:33:14.867 1 [error] <0.11298.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11298.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:33:14.867 1 [error] <0.11299.1>@Undefined:Undefined:Undefined
gen_server <0.11299.1> terminated with reason: connection_down
2022-06-27 22:33:14.867 1 [error] <0.11299.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11299.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:33:14.868 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:33:14.868 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:33:14.869 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11298.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.211.55.217">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6967>,socket_mon =>
#Ref<0.155928093.3974365185.155734>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11299.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]}
```

```
2022-06-27 22:33:14.870 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11299.1>,connection_down} 2022-06-27
22:33:16.017 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:33:24.870 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:33:25.183 1 [info] <0.11303.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:33:25.184 1 [info] <0.11303.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.11302.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:33:25.491 1 [error] <0.11302.1>@http2_client:handle_settings:822
gen_server <0.11302.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:33:25.493 1 [error]
<0.11302.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.11302.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:33:25.493 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11303.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:33:25.494 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:33:25.494 1 [error] <0.11303.1>@Undefined:Undefined:Undefined
gen_server <0.11303.1> terminated with reason: connection_down
2022-06-27 22:33:25.494 1 [error] <0.11303.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11303.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:33:25.495 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:33:25.495 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:33:25.497 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11302.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6968>,socket_mon =>
#Ref<0.155928093.3974365185.155962>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11303.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:33:25.497 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11303.1>,connection_down} 2022-06-27
22:33:26.170 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:33:35.498 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:33:35.571 1 [info] <0.11306.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:33:35.571 1 [info] <0.11306.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.11305.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:33:35.655 1 [error] <0.11305.1>@http2_client:handle_settings:822
gen_server <0.11305.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:33:35.656 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11306.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]
2022-06-27 22:33:35.657 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:33:35.657 1 [error] <0.11305.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11305.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:33:35.657 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:33:35.657 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:33:35.659 1 [error] <0.11306.1>@Undefined:Undefined:Undefined
gen_server <0.11306.1> terminated with reason: connection_down
2022-06-27 22:33:35.660 1 [error] <0.11306.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11306.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:33:35.660 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11305.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6969>,socket_mon =>
#Ref<0.155928093.3973316611.232589>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```



```
1,owner => <0.11306.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 22:33:35.661 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11306.1>,connection_down}
2022-06-27 22:33:36.308 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:33:37.197 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:33:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:33:37.197 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:33:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:33:37.199 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6692,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:33:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:33:45.660 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:33:45.726 1 [info] <0.11309.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:33:45.727 1 [info] <0.11309.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.11308.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:33:45.790 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11309.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:33:45.790 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:33:45.791 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:33:45.792 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:33:45.794 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11308.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6970>,socket_mon =>
#Ref<0.155928093.3973578754.182496>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11309.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 22:33:45.794 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11309.1>,connection_down}
2022-06-27 22:33:45.797 1 [error] <0.11308.1>@http2_client:handle_settings:822
gen_server <0.11308.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:33:45.798 1 [error] <0.11308.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11308.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:33:45.798 1 [error] <0.11309.1>@Undefined:Undefined:Undefined
gen_server <0.11309.1> terminated with reason: connection_down
2022-06-27 22:33:45.799 1 [error] <0.11309.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11309.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:33:46.455 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:33:55.794 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:33:55.938 1 [info] <0.11312.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:33:55.938 1 [info] <0.11312.1>@grpc_client_stream_custom:init:
```

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.11311.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:33:56.078 1 [error] <0.11311.1>@http2_client:handle_settings:822
gen_server <0.11311.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:33:56.079 1 [error] <0.11311.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11311.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:33:56.080 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11312.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:33:56.080 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:33:56.081 1 [error] <0.11312.1>@Undefined:Undefined:Undefined
gen_server <0.11312.1> terminated with reason: connection_down
2022-06-27 22:33:56.081 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 22:33:56.081 1 [error] <0.11312.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.11312.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:33:56.081 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 22:33:56.084 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11311.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}]}},host => "3.137.92.200",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.6971>,socket\_mon =>  
#Ref<0.155928093.3974365185.156641>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.11312.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}},{file,"http2\_client.erl"},{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}

2022-06-27 22:33:56.084 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11312.1>,connection\_down}

2022-06-27 22:33:56.598 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

2022-06-27 22:34:06.067 1 [notice]

<0.11329.1>@libp2p\_multistream\_server:handle\_info:{108,13} Failed to handshake

```
client "/ip4/192.168.5.233/tcp/52378": closed
2022-06-27 22:34:06.084 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:34:06.346 1 [info] <0.11332.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:34:06.348 1 [info] <0.11332.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.11331.1>,>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}>,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:34:06.600 1 [error] <0.11331.1>@http2_client:handle_settings:822
gen_server <0.11331.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:34:06.601 1 [error] <0.11331.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11331.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:34:06.601 1 [error] <0.11332.1>@Undefined:Undefined:Undefined
gen_server <0.11332.1> terminated with reason: connection_down
2022-06-27 22:34:06.602 1 [error] <0.11332.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11332.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:34:06.602 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11332.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
```

```
{file,"miner_poc_grpc_client_statem.erl"},{line,467}}},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 22:34:06.602 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:34:06.602 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:34:06.602 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:34:06.604 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11331.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6978>,socket_mon =>
#Ref<0.155928093.3973316611.232610>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11332.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
```

2022-06-27 22:34:06.605 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11332.1>,connection\_down} 2022-06-27  
22:34:06.737 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5}  
PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:34:07.197 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:34:07 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 22:34:07.198 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:34:07 GMT">>,<<"txnb">> => 0}  
2022-06-27 22:34:07.199 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=6696,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:34:07 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 22:34:16.604 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "18.228.115.118":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:34:16.862 1 [info] <0.11373.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 22:34:16.865 1 [info] <0.11373.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"18.228.115.118">>,http\_connection => <0.11372.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 22:34:16.877 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:34:17.114 1 [error] <0.11372.1>@http2\_client:handle\_settings:822  
gen\_server <0.11372.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,



```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:34:17.116 1 [error] <0.11372.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11372.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:34:17.116 1 [error] <0.11373.1>@Undefined:Undefined:Undefined
gen_server <0.11373.1> terminated with reason: connection_down
2022-06-27 22:34:17.117 1 [error] <0.11373.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11373.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:34:17.118 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11373.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:34:17.118 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:34:17.118 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:34:17.119 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:34:17.120 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11372.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"18.228.115.118">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6980>,socket_mon =>
#Ref<0.155928093.3974365185.157539>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11373.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:34:17.121 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11373.1>,connection_down} 2022-06-27
22:34:27.037 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:34:27.121 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:34:27.438 1 [info] <0.11376.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:34:27.440 1 [info] <0.11376.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.11375.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

miner\_poc\_grpc\_client\_handler

2022-06-27 22:34:27.748 1 [error] <0.11375.1>@http2\_client:handle\_settings:822  
gen\_server <0.11375.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 22:34:27.750 1 [error] <0.11375.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.11375.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 22:34:27.751 1 [error] <0.11376.1>@Undefined:Undefined:Undefined  
gen\_server <0.11376.1> terminated with reason: connection\_down

2022-06-27 22:34:27.751 1 [error] <0.11376.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.11376.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:34:27.752 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.11376.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{"file","grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{"file","grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},

{miner\_poc\_grpc\_client\_statem,setup,3,  
[{"file","miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},

{gen\_statem,loop\_state\_callback,11,[{"file","gen\_statem.erl"},{line,1203}]},

{proc\_lib,init\_p\_do\_apply,3,[{"file","proc\_lib.erl"},{line,226}]}

2022-06-27 22:34:27.752 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}

2022-06-27 22:34:27.752 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response

2022-06-27 22:34:27.753 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 22:34:27.754 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11375.1>,{function_clause,
[ {http2_client,handle_settings,
[ [],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {54,
{<<":authority">>,<<"3.24.161.210">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6981>,socket_mon =>
#Ref<0.155928093.3974365185.157765>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11376.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:34:27.755 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11376.1>,connection_down} 2022-06-27
22:34:37.200 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:34:37.201 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:34:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:34:37.201 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:34:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:34:37.203 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
```

```
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6700,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:34:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:34:37.229 1 [info] <0.1662.0>@blockchain_worker:start_sync:
{888,13} new block sync starting with Pid: <0.11378.1>, Ref:
#Ref<0.155928093.3974365185.157998>, Peer: "/p2p/
112YEKpfD3GrxGmfpNbxhwDpMC1bEDys4HhfNY199q9ct4XLommd"
2022-06-27 22:34:37.755 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:34:37.830 1 [info] <0.11383.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:34:37.831 1 [info] <0.11383.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.1.39">>,http_connection => <0.11382.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:34:37.900 1 [error] <0.11382.1>@http2_client:handle_settings:822
gen_server <0.11382.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:34:37.901 1 [error] <0.11382.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11382.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:34:37.901 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11383.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 22:34:37.902 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:34:37.902 1 [error] <0.11383.1>@Undefined:Undefined:Undefined
gen_server <0.11383.1> terminated with reason: connection_down
2022-06-27 22:34:37.902 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:34:37.902 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:34:37.903 1 [error] <0.11383.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11383.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:34:37.904 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11382.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{52,
{<<":authority">>,<<"52.30.1.39">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6982>,socket_mon =>
#Ref<0.155928093.3974365185.158030>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.11383.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 22:34:37.904 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11383.1>,connection_down}
2022-06-27 22:34:47.334 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:34:47.904 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:34:48.122 1 [info] <0.11386.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:34:48.125 1 [info] <0.11386.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.11385.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:34:48.331 1 [error] <0.11385.1>@http2_client:handle_settings:822
gen_server <0.11385.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:34:48.333 1 [error]
<0.11385.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.11385.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
```

```
2022-06-27 22:34:48.333 1 [error] <0.11386.1>@Undefined:Undefined:Undefined
gen_server <0.11386.1> terminated with reason: connection_down
2022-06-27 22:34:48.334 1 [error] <0.11386.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11386.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:34:48.336 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11386.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:34:48.337 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:34:48.337 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:34:48.337 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:34:48.339 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11385.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
```



```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6983>,socket_mon =>
#Ref<0.155928093.3973578754.182768>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11386.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 22:34:48.341 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11386.1>,connection_down} 2022-06-27
22:34:48.674 1 [info] <0.11380.1>@blockchain_sync_handler:handle_data:{132,5}
adding sync blocks [1409926,1409927,1409928,1409929,1409930]
2022-06-27 22:34:51.420 1 [info]
<0.11380.1>@blockchain_sync_handler:handle_data:{142,13} Eagerly re-gossiping
1409930
2022-06-27 22:34:52.995 1 [info] <0.11388.1>@blockchain_txn:validate:{299,5}
valid: [], invalid: []
2022-06-27 22:34:53.076 1 [info] <0.11395.1>@blockchain_txn:absorb:{578,21}
took 30 ms to absorb blockchain_txn_payment_v1
2022-06-27 22:34:53.423 1 [info] <0.11395.1>@blockchain_txn:absorb:{578,21}
took 329 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 22:34:53.525 1 [info] <0.11388.1>@blockchain_txn:absorb:{578,21}
took 374 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 22:34:53.797 1 [info] <0.11395.1>@blockchain_txn:absorb:{578,21}
took 375 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 22:34:53.847 1 [info] <0.11395.1>@blockchain_txn:absorb:{578,21}
took 26 ms to absorb blockchain_txn_validator_heartbeat_v1
2022-06-27 22:34:53.944 1 [info] <0.11388.1>@blockchain_txn:absorb:{578,21}
took 419 ms to absorb blockchain_txn_assert_location_v2
2022-06-27 22:34:53.947 1 [info] <0.11395.1>@blockchain_txn:absorb:{578,21}
took 59 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:34:53.982 1 [info] <0.11395.1>@blockchain_txn:absorb:{578,21}
took 35 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:34:54.032 1 [info] <0.11395.1>@blockchain_txn:absorb:{578,21}
took 26 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:34:54.058 1 [info] <0.11395.1>@blockchain_txn:absorb:{578,21}
```

took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.087 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.112 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.146 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.191 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.250 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 305 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 22:34:54.286 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.313 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.365 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.395 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.429 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.456 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.482 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.513 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.565 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.579 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 329 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 22:34:54.617 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.652 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.713 1 [info] <0.11395.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:54.854 1 [info]  
<0.11395.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected  
241 POCs for block height 1409875  
2022-06-27 22:34:54.920 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 341 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 22:34:55.218 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:34:55.274 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:55.339 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:55.410 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:55.474 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:55.556 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:55.628 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:55.685 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:55.717 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:55.762 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:55.814 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:55.857 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:55.930 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:56.002 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:56.074 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:56.127 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:56.182 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:56.239 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:56.278 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:56.355 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:56.413 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:56.462 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:56.535 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:34:56.634 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 99 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:56.701 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:56.748 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:56.829 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 81 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:56.912 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 83 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:56.954 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.012 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.061 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.111 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.150 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.203 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.273 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.348 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.388 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.448 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.472 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:34:57.526 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.578 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.637 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.685 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.735 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.784 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}

took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.858 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:57.950 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 92 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:58.006 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:58.039 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:58.076 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:58.124 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:58.163 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:58.199 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:58.238 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:58.265 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:58.321 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:58.340 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.89.130.114":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:34:58.352 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:58.431 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:58.520 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 89 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:58.554 1 [info] <0.11397.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 22:34:58.555 1 [info] <0.11397.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"52.89.130.114">>,http\_connection => <0.11396.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[],[]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

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miner_poc_grpc_client_handler
2022-06-27 22:34:58.615 1 [info] <0.11388.1>@blockchain_txn:absorb:{578,21}
took 94 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:34:58.684 1 [info] <0.11388.1>@blockchain_txn:absorb:{578,21}
took 69 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:34:58.749 1 [info] <0.11388.1>@blockchain_txn:absorb:{578,21}
took 61 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:34:58.767 1 [error] <0.11396.1>@http2_client:handle_settings:822
gen_server <0.11396.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:34:58.769 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11397.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:34:58.769 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:34:58.769 1 [error]
<0.11396.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.11396.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:34:58.770 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:34:58.770 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
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validator failed: {error,req_failed}
2022-06-27 22:34:58.771 1 [error] <0.11397.1>@Undefined:Undefined:Undefined
gen_server <0.11397.1> terminated with reason: connection_down
2022-06-27 22:34:58.771 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11396.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6984>,socket_mon =>
#Ref<0.155928093.3974365185.159541>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11397.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:34:58.772 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11397.1>,connection_down}
2022-06-27 22:34:58.772 1 [error] <0.11397.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11397.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:34:58.824 1 [info] <0.11388.1>@blockchain_txn:absorb:{578,21}
took 72 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:34:58.886 1 [info] <0.11388.1>@blockchain_txn:absorb:{578,21}
took 58 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:34:58.938 1 [info] <0.11388.1>@blockchain_txn:absorb:{578,21}
took 48 ms to absorb blockchain_txn_poc_receipts_v2
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2022-06-27 22:34:58.998 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.042 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.114 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.168 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.223 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.272 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.332 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.391 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.442 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.511 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.602 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 90 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.651 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.721 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.803 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.851 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.891 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:34:59.946 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.001 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.044 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.138 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 94 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.193 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.246 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2



2022-06-27 22:35:00.299 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.368 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.461 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 89 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.518 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.583 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.671 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 87 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.735 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.763 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.807 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.854 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.918 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:00.973 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:01.009 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:01.057 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:01.114 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:01.155 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 41 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:01.213 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:01.260 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:01.338 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:01.398 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:01.459 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:01.491 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:01.534 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:01.607 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:01.668 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:01.724 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:01.788 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 64 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:01.847 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:01.886 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:01.912 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:01.958 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:01.990 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:02.037 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:02.100 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:02.207 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 107 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:02.279 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:02.366 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 86 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:02.415 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:02.461 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:02.508 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:02.561 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:02.631 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:02.679 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:02.748 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:35:02.796 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:02.850 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:02.905 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:02.961 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:02.989 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.015 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 25 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.068 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.124 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.186 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 62 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.258 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.325 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.396 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.448 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.528 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 80 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.591 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.654 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.711 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.771 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.828 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.879 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.948 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:35:03.998 1 [info] <0.11388.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2

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2022-06-27 22:35:04.045 1 [info] <0.11388.1>@blockchain_txn:absorb:{578,21}
took 47 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:35:04.110 1 [info] <0.11388.1>@blockchain_txn:absorb:{578,21}
took 64 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:35:04.203 1 [info] <0.11388.1>@blockchain_txn:absorb:{578,21}
took 94 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:35:04.255 1 [info] <0.11388.1>@blockchain_txn:absorb:{578,21}
took 51 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:35:04.322 1 [info] <0.11388.1>@blockchain_txn:absorb:{578,21}
took 66 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:35:04.395 1 [info] <0.11388.1>@blockchain_txn:absorb:{578,21}
took 74 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:35:04.426 1 [info] <0.11388.1>@blockchain_txn:absorb:{578,21}
took 31 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:35:04.515 1 [info]
<0.11388.1>@blockchain_ledger_v1:process_poc_proposals:{2148,21} Selected
212 POCs for block height 1409926
2022-06-27 22:35:04.701 1 [error] emulator@Undefined:Undefined:Undefined
Error in process <0.11388.1> on node 'miner@127.0.0.1' with exit value:
{{badmatch,{error,{error,"Corruption: block checksum mismatch: stored =
1975174337, computed = 3807013015 in /var/data/blockchain.db/015769.sst offset
486887 size 514635"}},[{blockchain,save_block,2,[{file,"blockchain.erl"},
{line,2535}]},{blockchain,'-add_block_/3-fun-0-',5,[{file,"blockchain.erl"},
{line,1136}]},{blockchain_txn,unvalidated_absorb_and_commit,4,
[{file,"blockchain_txn.erl"},{line,508}]},{blockchain,add_block_,3,
[{file,"blockchain.erl"},{line,1157}]},{blockchain,'-check_plausible_blocks/2-
fun-1-',4,[{file,"blockchain.erl"},{line,2989}]},{lists,foreach,2,[{file,"lists.erl"},
{line,1342}]},{blockchain,check_plausible_blocks,2,[{file,"blockchain.erl"},
{line,2983}]}}}
2022-06-27 22:35:04.734 1 [info] <0.1662.0>@blockchain_worker:handle_info:
{673,53} block sync down: normal
2022-06-27 22:35:07.198 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:35:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:35:07.198 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:35:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:35:07.200 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
```

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ed=6703,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:35:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:35:07.614 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:35:08.774 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:35:09.035 1 [info] <0.11400.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:35:09.037 1 [info] <0.11400.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.11399.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:35:09.285 1 [error]
<0.11399.1>@http2_client:handle_settings:822 gen_server <0.11399.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:35:09.287 1 [error] <0.11399.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11399.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:35:09.287 1 [error] <0.11400.1>@Undefined:Undefined:Undefined
gen_server <0.11400.1> terminated with reason: connection_down
2022-06-27 22:35:09.287 1 [error] <0.11400.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11400.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:35:09.288 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11400.1>,{rcv,10000},infinity]}} , Stack:[{gen_server,call,3,
```

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{file,"gen_server.erl"},{line,247}}},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 22:35:09.288 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:35:09.289 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:35:09.289 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:35:09.290 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11399.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"18.228.158.83">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6985>,socket_mon =>
#Ref<0.155928093.3973316611.233009>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11400.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}}
2022-06-27 22:35:09.291 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11400.1>,connection_down} 2022-06-27
22:35:17.758 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:35:19.292 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:35:19.611 1 [info] <0.11426.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:35:19.612 1 [info] <0.11426.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.11421.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:35:19.926 1 [error] <0.11421.1>@http2_client:handle_settings:822
gen_server <0.11421.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:35:19.927 1 [error] <0.11421.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11421.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:35:19.927 1 [error] <0.11426.1>@Undefined:Undefined:Undefined
gen_server <0.11426.1> terminated with reason: connection_down
2022-06-27 22:35:19.927 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.11426.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:35:19.928 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:35:19.928 1 [error] <0.11426.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11426.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:35:19.928 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:35:19.928 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:35:19.930 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11421.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6986>,socket_mon =>
```



```
#Ref<0.155928093.3973578754.184093>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11426.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 22:35:19.931 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11426.1>,connection_down} 2022-06-27
22:35:27.905 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:35:29.930 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:35:30.005 1 [info] <0.11432.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:35:30.005 1 [info] <0.11432.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.11431.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:35:30.077 1 [error] <0.11431.1>@http2_client:handle_settings:822
gen_server <0.11431.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:35:30.078 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11432.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl",{line,247}}],
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl",{line,418}}],{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl",{line,226}}]}]
2022-06-27 22:35:30.079 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:35:30.079 1 [error] <0.11431.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11431.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:35:30.080 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:35:30.080 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:35:30.080 1 [error] <0.11432.1>@Undefined:Undefined:Undefined
gen_server <0.11432.1> terminated with reason: connection_down
2022-06-27 22:35:30.081 1 [error] <0.11432.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11432.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:35:30.083 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11431.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],}],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"52.210.14.128">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}],host => "52.210.14.128",last_stream => 1,owner =>
```

```
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6987>,socket_mon =>
#Ref<0.155928093.3974365185.161479>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11432.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:35:30.084 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11432.1>,connection_down}
2022-06-27 22:35:37.200 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:35:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:35:37.201 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:35:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:35:37.204 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6707,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:35:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:35:38.041 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:35:40.083 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:35:40.344 1 [info] <0.11435.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 22:35:40.345 1 [info] <0.11435.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.209.94.225">>,http_connection => <0.11434.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:35:40.606 1 [error]
<0.11434.1>@http2_client:handle_settings:822 gen_server <0.11434.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:35:40.608 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11435.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:35:40.608 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:35:40.610 1 [error] <0.11434.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11434.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:35:40.610 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 22:35:40.610 1 [error] <0.11435.1>@Undefined:Undefined:Undefined  
gen\_server <0.11435.1> terminated with reason: connection\_down

2022-06-27 22:35:40.610 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}

2022-06-27 22:35:40.611 1 [error] <0.11435.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.11435.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:35:40.615 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11434.1>,{function\_clause,

[{http2\_client,handle\_settings,

[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,

{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,

{<<"content-type">>,<<"application/grpc+proto">>}},{55,

{<<":authority">>,<<"13.209.94.225">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}}],host => "13.209.94.225",last\_stream => 1,owner =>

<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size

=> 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},server\_window => 65528,socket => #Port<0.6988>,socket\_mon =>

#Ref<0.155928093.3973578754.184396>,state => open,stream\_count =>

1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>

1,owner => <0.11435.1>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>

gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],

{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],

{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],

{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]

2022-06-27 22:35:40.617 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11435.1>,connection\_down} 2022-06-27

22:35:48.181 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5}

PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:35:50.613 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:35:50.883 1 [info] <0.11438.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:35:50.885 1 [info] <0.11438.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.11437.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:35:51.139 1 [error] <0.11437.1>@http2_client:handle_settings:822
gen_server <0.11437.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:35:51.141 1 [error] <0.11437.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11437.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:35:51.142 1 [error] <0.11438.1>@Undefined:Undefined:Undefined
gen_server <0.11438.1> terminated with reason: connection_down
2022-06-27 22:35:51.142 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11438.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 22:35:51.143 1 [error] <0.11438.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11438.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:35:51.143 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:35:51.143 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:35:51.144 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:35:51.147 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11437.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6989>,socket_mon =>
#Ref<0.155928093.3974365185.161623>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11438.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:35:51.148 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.11438.1>,connection_down} 2022-06-27
22:35:58.348 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:36:01.147 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.251.77.229":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:36:01.367 1 [info] <0.11442.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:36:01.368 1 [info] <0.11442.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.251.77.229">>,http_connection => <0.11441.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:36:01.582 1 [error] <0.11441.1>@http2_client:handle_settings:822
gen_server <0.11441.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:36:01.583 1 [error] <0.11441.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11441.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:36:01.583 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11442.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```



```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:36:01.583 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:36:01.583 1 [error] <0.11442.1>@Undefined:Undefined:Undefined
gen_server <0.11442.1> terminated with reason: connection_down
2022-06-27 22:36:01.584 1 [error] <0.11442.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11442.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:36:01.584 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:36:01.584 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:36:01.585 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11441.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"54.251.77.229">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.251.77.229",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6990>,socket_mon =>
#Ref<0.155928093.3974365185.161861>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11442.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
```

```
{gen_server,handle_msg,6,[[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 22:36:01.586 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11442.1>,connection_down}
2022-06-27 22:36:07.197 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:36:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:36:07.197 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:36:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:36:07.198 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6711,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:36:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:36:08.484 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:36:11.586 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:36:11.802 1 [info] <0.11445.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:36:11.803 1 [info] <0.11445.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.11444.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:36:12.009 1 [error] <0.11444.1>@http2_client:handle_settings:822
gen_server <0.11444.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:36:12.010 1 [error] <0.11444.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11444.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:36:12.011 1 [error] <0.11445.1>@Undefined:Undefined:Undefined
gen_server <0.11445.1> terminated with reason: connection_down
2022-06-27 22:36:12.011 1 [error] <0.11445.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11445.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:36:12.012 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11445.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:36:12.012 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:36:12.013 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:36:12.013 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:36:12.015 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11444.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"35.82.239.134">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6991>,socket_mon =>
#Ref<0.155928093.3974365185.161927>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11445.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:36:12.015 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11445.1>,connection_down} 2022-06-27
22:36:18.654 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:36:22.015 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:36:22.081 1 [info] <0.11453.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:36:22.082 1 [info] <0.11453.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.11452.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 22:36:22.145 1 [error] <0.11452.1>@http2_client:handle_settings:822
gen_server <0.11452.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:36:22.145 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11453.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:36:22.146 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:36:22.147 1 [error] <0.11452.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11452.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:36:22.147 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:36:22.147 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:36:22.147 1 [error] <0.11453.1>@Undefined:Undefined:Undefined
gen_server <0.11453.1> terminated with reason: connection_down
2022-06-27 22:36:22.148 1 [error] <0.11453.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11453.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:36:22.149 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11452.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}},]}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6992>,socket_mon =>
#Ref<0.155928093.3974365185.162016>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11453.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:36:22.150 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11453.1>,connection_down} 2022-06-27
22:36:28.817 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:36:32.150 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:36:32.366 1 [info] <0.11489.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:36:32.367 1 [info] <0.11489.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.11488.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:36:32.575 1 [error] <0.11488.1>@http2_client:handle_settings:822
gen_server <0.11488.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:36:32.576 1 [error] <0.11488.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11488.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:36:32.577 1 [error] <0.11489.1>@Undefined:Undefined:Undefined
gen_server <0.11489.1> terminated with reason: connection_down
2022-06-27 22:36:32.577 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11489.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:36:32.577 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:36:32.577 1 [error] <0.11489.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11489.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:36:32.577 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
```

client error response

2022-06-27 22:36:32.577 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:36:32.579 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11488.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42, {<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{53, {<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "54.70.239.5",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.6998>,socket\_mon => #Ref<0.155928093.3974365185.162289>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.11489.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}}

2022-06-27 22:36:32.580 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11489.1>,connection\_down} 2022-06-27 22:36:37.205 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 22:36:37 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152

2022-06-27 22:36:37.207 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>



```
<<"2022-06-27 22:36:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:36:37.209 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6715,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:36:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:36:38.967 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:36:42.580 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:36:42.645 1 [info] <0.11492.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:36:42.647 1 [info] <0.11492.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.70.55.231">>,http_connection => <0.11491.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:36:42.702 1 [error] <0.11491.1>@http2_client:handle_settings:822
gen_server <0.11491.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:36:42.703 1 [error] <0.11491.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11491.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:36:42.703 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11492.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 22:36:42.704 1 [error] <0.11492.1>@Undefined:Undefined:Undefined
gen_server <0.11492.1> terminated with reason: connection_down
2022-06-27 22:36:42.704 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:36:42.704 1 [error] <0.11492.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11492.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:36:42.704 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:36:42.705 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:36:42.706 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11491.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{53,
{<<":authority">>,<<"3.70.55.231">>}}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.6999>,socket_mon =>
#Ref<0.155928093.3974365185.162460>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11492.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}}
2022-06-27 22:36:42.707 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11492.1>,connection_down} 2022-06-27
22:36:49.115 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:36:52.708 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:36:52.860 1 [info] <0.11495.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:36:52.862 1 [info] <0.11495.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.11494.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:36:53.017 1 [error] <0.11494.1>@http2_client:handle_settings:822
gen_server <0.11494.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:36:53.018 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11495.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:36:53.018 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:36:53.018 1 [error] <0.11494.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11494.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:36:53.018 1 [error] <0.11495.1>@Undefined:Undefined:Undefined
gen_server <0.11495.1> terminated with reason: connection_down
2022-06-27 22:36:53.019 1 [error] <0.11495.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11495.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:36:53.018 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:36:53.019 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:36:53.022 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11494.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7000>,socket_mon =>
#Ref<0.155928093.3974365185.162624>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11495.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:36:53.022 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11495.1>,connection_down} 2022-06-27
22:36:59.247 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:37:03.022 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:37:03.086 1 [info] <0.11498.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:37:03.087 1 [info] <0.11498.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.11497.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:37:03.147 1 [error] <0.11497.1>@http2_client:handle_settings:822
gen_server <0.11497.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:37:03.148 1 [error] <0.11497.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11497.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:37:03.150 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11498.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:37:03.150 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:37:03.151 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:37:03.151 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:37:03.157 1 [error] <0.11498.1>@Undefined:Undefined:Undefined
gen_server <0.11498.1> terminated with reason: connection_down
2022-06-27 22:37:03.158 1 [error] <0.11498.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11498.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:37:03.156 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11497.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
```

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{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7001>,socket_mon =>
#Ref<0.155928093.3974365185.162808>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11498.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]]}}
2022-06-27 22:37:03.159 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11498.1>,connection_down} 2022-06-27
22:37:07.204 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:37:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:37:07.205 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:37:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:37:07.207 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6719,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:37:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:37:09.387 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:37:13.154 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 22:37:13.418 1 [info] <0.11501.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:37:13.420 1 [info] <0.11501.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.11500.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:37:13.677 1 [error] <0.11500.1>@http2_client:handle_settings:822
gen_server <0.11500.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:37:13.679 1 [error] <0.11500.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11500.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:37:13.679 1 [error] <0.11501.1>@Undefined:Undefined:Undefined
gen_server <0.11501.1> terminated with reason: connection_down
2022-06-27 22:37:13.679 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11501.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:37:13.680 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```



```
<<"stream create failed">>}}
2022-06-27 22:37:13.680 1 [error] <0.11501.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11501.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:37:13.680 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:37:13.681 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:37:13.683 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11500.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7002>,socket_mon =>
#Ref<0.155928093.3973316611.233315>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11501.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:37:13.684 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11501.1>,connection_down}
2022-06-27 22:37:19.527 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833  
2022-06-27 22:37:21.726 1 [info]  
<0.1635.0>@libp2p\_group\_gossip\_server:drop\_target:{619,5} dropping target for peerbook <0.1643.0>  
2022-06-27 22:37:23.683 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.125.32.225":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:37:23.938 1 [info] <0.11507.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 22:37:23.941 1 [info] <0.11507.1>@grpc\_client\_stream\_custom:init: {133,9} init stream success with state #{buffer => <<>>,compression => none,connection => #{client => http2\_client,host => <<"13.125.32.225">>,http\_connection => <0.11506.1>,scheme => <<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input => gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name => validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream => false,package => [],queue => {[],[]},response\_pending => false,rpc => validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod: miner\_poc\_grpc\_client\_handler  
2022-06-27 22:37:24.189 1 [error] <0.11506.1>@http2\_client:handle\_settings:822 gen\_server <0.11506.1> terminated with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 22:37:24.190 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.11507.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 22:37:24.191 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message =>

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<<"stream create failed">>}}
2022-06-27 22:37:24.192 1 [error] <0.11506.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11506.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:37:24.192 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:37:24.192 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:37:24.192 1 [error] <0.11507.1>@Undefined:Undefined:Undefined
gen_server <0.11507.1> terminated with reason: connection_down
2022-06-27 22:37:24.193 1 [error] <0.11507.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11507.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:37:24.195 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11506.1>,{function_clause,
[{'http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7003>,socket_mon =>
#Ref<0.155928093.3973578754.185619>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11507.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

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{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 22:37:24.195 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11507.1>,connection_down}
2022-06-27 22:37:29.670 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:37:34.195 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:37:34.419 1 [info] <0.11531.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:37:34.421 1 [info] <0.11531.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.11530.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:37:34.636 1 [error] <0.11530.1>@http2_client:handle_settings:822
gen_server <0.11530.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:37:34.638 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11531.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

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{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 22:37:34.638 1 [error] <0.11530.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11530.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:37:34.638 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:37:34.639 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:37:34.639 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:37:34.639 1 [error] <0.11531.1>@Undefined:Undefined:Undefined
gen_server <0.11531.1> terminated with reason: connection_down
2022-06-27 22:37:34.640 1 [error] <0.11531.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11531.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:37:34.642 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11530.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]}},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"52.220.227.216">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7004>,socket_mon =>
#Ref<0.155928093.3973316611.233653>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11531.1>,server_window => 65528,state =>
```

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half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 22:37:34.644 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11531.1>,connection_down}
2022-06-27 22:37:37.202 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:37:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:37:37.203 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:37:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:37:37.204 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6723,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:37:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:37:39.824 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:37:44.642 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:37:44.903 1 [info] <0.11534.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:37:44.904 1 [info] <0.11534.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.11533.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

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false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:37:45.162 1 [error] <0.11533.1>@http2_client:handle_settings:822
gen_server <0.11533.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:37:45.164 1 [error] <0.11533.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11533.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:37:45.165 1 [error] <0.11534.1>@Undefined:Undefined:Undefined
gen_server <0.11534.1> terminated with reason: connection_down
2022-06-27 22:37:45.166 1 [error] <0.11534.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11534.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:37:45.168 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11534.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:37:45.169 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:37:45.170 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:37:45.170 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
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validator failed: {error,req_failed}
2022-06-27 22:37:45.176 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11533.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7005>,socket_mon =>
#Ref<0.155928093.3973578754.185834>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11534.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:37:45.176 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11534.1>,connection_down} 2022-06-27
22:37:49.967 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:37:55.173 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:37:55.245 1 [info] <0.11537.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:37:55.246 1 [info] <0.11537.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```



```
<<"52.30.111.82">>,http_connection => <0.11536.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:37:55.312 1 [error] <0.11536.1>@http2_client:handle_settings:822
gen_server <0.11536.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:37:55.314 1 [error] <0.11536.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11536.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:37:55.314 1 [error] <0.11537.1>@Undefined:Undefined:Undefined
gen_server <0.11537.1> terminated with reason: connection_down
2022-06-27 22:37:55.315 1 [error] <0.11537.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11537.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:37:55.315 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11537.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:37:55.315 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:37:55.316 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 22:37:55.316 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 22:37:55.318 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11536.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{54, {<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "52.30.111.82",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.7006>,socket\_mon => #Ref<0.155928093.3973578754.185865>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.11537.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 22:37:55.318 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11537.1>,connection\_down} 2022-06-27 22:38:00.114 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:38:05.319 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.137.92.200": {gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:38:05.469 1 [info] <0.11540.1>@grpc\_client\_stream\_custom:init:

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{131,9} init stream for RPC validators and type unary
2022-06-27 22:38:05.470 1 [info] <0.11540.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.11539.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:38:05.612 1 [error] <0.11539.1>@http2_client:handle_settings:822
gen_server <0.11539.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:38:05.613 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11540.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:38:05.613 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:38:05.613 1 [error] <0.11539.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11539.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:38:05.614 1 [error] <0.11540.1>@Undefined:Undefined:Undefined
gen_server <0.11540.1> terminated with reason: connection_down
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2022-06-27 22:38:05.614 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 22:38:05.614 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:38:05.614 1 [error] <0.11540.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.11540.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:38:05.615 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11539.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {54, {<<":authority">>,<<"3.137.92.200">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}, host => "3.137.92.200",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.7007>,socket\_mon => #Ref<0.155928093.3973578754.185910>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.11540.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}, timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}, [{file,"http2\_client.erl"}, {line,822}], {http2\_client,handle\_packet,2, [{file,"http2\_client.erl"}, {line,648}], {gen\_server,try\_dispatch,4, [{file,"gen\_server.erl"}, {line,695}], {gen\_server,handle\_msg,6, [{file,"gen\_server.erl"}, {line,771}], {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"}, {line,226}]}}]}

2022-06-27 22:38:05.615 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11540.1>,connection\_down}

2022-06-27 22:38:07.212 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>

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0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:38:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:38:07.212 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:38:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:38:07.213 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6727,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:38:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:38:10.261 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:38:15.616 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:38:15.870 1 [info] <0.11543.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:38:15.871 1 [info] <0.11543.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.11542.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:38:16.119 1 [error] <0.11542.1>@http2_client:handle_settings:822
gen_server <0.11542.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:38:16.120 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11543.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
```

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{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 22:38:16.120 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:38:16.121 1 [error] <0.11542.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11542.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:38:16.121 1 [error] <0.11543.1>@Undefined:Undefined:Undefined
gen_server <0.11543.1> terminated with reason: connection_down
2022-06-27 22:38:16.121 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:38:16.121 1 [error] <0.11543.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11543.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811 2022-06-27
22:38:16.121 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:38:16.123 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11542.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}}],{54,
{<<":authority">>,<<"3.39.165.144">>}}],{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7008>,socket_mon =>
#Ref<0.155928093.3973578754.185963>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11543.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:38:16.123 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11543.1>,connection_down} 2022-06-27
22:38:20.401 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:38:26.124 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:38:26.269 1 [info] <0.11546.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:38:26.270 1 [info] <0.11546.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.11545.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:38:26.411 1 [error] <0.11545.1>@http2_client:handle_settings:822
gen_server <0.11545.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:38:26.412 1 [error] <0.11545.1>@http2_client:handle_settings:822
```

CRASH REPORT Process <0.11545.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 22:38:26.416 1 [error] <0.11546.1>@Undefined:Undefined:Undefined gen\_server <0.11546.1> terminated with reason: connection\_down

2022-06-27 22:38:26.417 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.11546.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]]]

2022-06-27 22:38:26.417 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 22:38:26.417 1 [error] <0.11546.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.11546.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:38:26.418 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 22:38:26.418 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:38:26.421 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11545.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>



```
{state,0,4096,4096,[],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {54,
{<<":authority">>,<<"3.13.130.184">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.13.130.184",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7009>,socket_mon =>
#Ref<0.155928093.3973578754.185999>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11546.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 22:38:26.422 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11546.1>,connection_down} 2022-06-27
22:38:30.560 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:38:36.420 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:38:36.682 1 [info] <0.11565.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:38:36.683 1 [info] <0.11565.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.11564.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:38:36.938 1 [error]
<0.11564.1>@http2_client:handle_settings:822 gen_server <0.11564.1>
```

```
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:38:36.939 1 [error]
<0.11564.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.11564.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:38:36.939 1 [error] <0.11565.1>@Undefined:Undefined:Undefined
gen_server <0.11565.1> terminated with reason: connection_down
2022-06-27 22:38:36.940 1 [error] <0.11565.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11565.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:38:36.940 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11565.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:38:36.940 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:38:36.940 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:38:36.940 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:38:36.942 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.11564.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {56,
{<<":authority">>,<<"18.228.115.118">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7010>,socket_mon =>
#Ref<0.155928093.3973578754.186106>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11565.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:38:36.942 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11565.1>,connection_down} 2022-06-27
22:38:37.213 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:38:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:38:37.214 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:38:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:38:37.215 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6731,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
```

```
<<"2022-06-27 22:38:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:38:40.707 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:38:46.943 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:38:47.092 1 [info] <0.11572.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:38:47.094 1 [info] <0.11572.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.11571.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:38:47.240 1 [error] <0.11571.1>@http2_client:handle_settings:822
gen_server <0.11571.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:38:47.242 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11572.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:38:47.242 1 [error] <0.11571.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11571.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:38:47.243 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:38:47.243 1 [error] <0.11572.1>@Undefined:Undefined:Undefined
gen_server <0.11572.1> terminated with reason: connection_down
2022-06-27 22:38:47.244 1 [error] <0.11572.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11572.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:38:47.244 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:38:47.244 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:38:47.248 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11571.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7011>,socket_mon =>
#Ref<0.155928093.3973578754.186166>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11572.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:38:47.249 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11572.1>,connection_down} 2022-06-27
22:38:50.854 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:38:57.247 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:38:57.461 1 [info] <0.11575.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:38:57.463 1 [info] <0.11575.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.11574.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:38:57.671 1 [error] <0.11574.1>@http2_client:handle_settings:822
gen_server <0.11574.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:38:57.674 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11575.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:38:57.674 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:38:57.674 1 [error] <0.11574.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11574.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:38:57.675 1 [error] <0.11575.1>@Undefined:Undefined:Undefined
gen_server <0.11575.1> terminated with reason: connection_down
2022-06-27 22:38:57.676 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:38:57.676 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:38:57.676 1 [error] <0.11575.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11575.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:38:57.680 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11574.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{53,
{<<":authority">>,<<"54.70.239.5">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7012>,socket_mon =>
#Ref<0.155928093.3973578754.186212>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11575.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>]],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>]],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}}
2022-06-27 22:38:57.681 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11575.1>,connection_down}
2022-06-27 22:39:00.997 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:39:07.213 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:39:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:39:07.214 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:39:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:39:07.216 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6735,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:39:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:39:07.679 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:39:07.899 1 [info] <0.11578.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:39:07.900 1 [info] <0.11578.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.11577.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```



```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:39:08.114 1 [error] <0.11577.1>@http2_client:handle_settings:822
gen_server <0.11577.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:39:08.114 1 [error] <0.11577.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11577.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:39:08.115 1 [error] <0.11578.1>@Undefined:Undefined:Undefined
gen_server <0.11578.1> terminated with reason: connection_down
2022-06-27 22:39:08.115 1 [error] <0.11578.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11578.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:39:08.116 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11578.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:39:08.116 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:39:08.117 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:39:08.117 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
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validator failed: {error,req_failed}
2022-06-27 22:39:08.118 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11577.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7013>,socket_mon =>
#Ref<0.155928093.3973578754.186259>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11578.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:39:08.119 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11578.1>,connection_down} 2022-06-27
22:39:11.147 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:39:18.120 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.209.94.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:39:18.371 1 [info] <0.11581.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:39:18.372 1 [info] <0.11581.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
```

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<<"13.209.94.225">>,http_connection => <0.11580.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:39:18.618 1 [error] <0.11580.1>@http2_client:handle_settings:822
gen_server <0.11580.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:39:18.619 1 [error] <0.11580.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11580.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:39:18.620 1 [error] <0.11581.1>@Undefined:Undefined:Undefined
gen_server <0.11581.1> terminated with reason: connection_down
2022-06-27 22:39:18.620 1 [error] <0.11581.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11581.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:39:18.621 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11581.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:39:18.621 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:39:18.622 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 22:39:18.622 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 22:39:18.624 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11580.1>,{function\_clause, [{http2\_client,handle\_settings, [[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"13.209.94.225">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "13.209.94.225",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.7014>,socket\_mon => #Ref<0.155928093.3973578754.186295>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.11581.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]  
2022-06-27 22:39:18.625 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11581.1>,connection\_down}  
2022-06-27 22:39:21.298 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:39:28.625 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "13.125.32.225":  
{gateway\_validators\_req\_v1\_pb,1}

```
2022-06-27 22:39:28.890 1 [info] <0.11585.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:39:28.893 1 [info] <0.11585.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.11584.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:39:29.145 1 [error] <0.11584.1>@http2_client:handle_settings:822
gen_server <0.11584.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:39:29.146 1 [error] <0.11584.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11584.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:39:29.146 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11585.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:39:29.146 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:39:29.147 1 [error] <0.11585.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.11585.1> terminated with reason: connection_down
2022-06-27 22:39:29.147 1 [error] <0.11585.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11585.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:39:29.147 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:39:29.147 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:39:29.149 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11584.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.125.32.225">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7015>,socket_mon =>
#Ref<0.155928093.3973578754.186342>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11585.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:39:29.150 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11585.1>,connection_down}
2022-06-27 22:39:31.434 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833  
2022-06-27 22:39:37.214 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:39:37 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 22:39:37.215 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:39:37 GMT">>,<<"txnb">> => 0}  
2022-06-27 22:39:37.216 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=6739,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:39:37 GMT">>,<<"txnb">> =>  
0},rtt\_samples=[],rtt=5000000}  
2022-06-27 22:39:39.150 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "52.30.1.39":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:39:39.478 1 [info] <0.11592.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 22:39:39.480 1 [info] <0.11592.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"52.30.1.39">>,http\_connection => <0.11591.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 22:39:39.549 1 [error] <0.11591.1>@http2\_client:handle\_settings:822  
gen\_server <0.11591.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 22:39:39.551 1 [error] <0.11591.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.11591.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

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<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...) line 822
2022-06-27 22:39:39.551 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11592.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:39:39.552 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:39:39.553 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:39:39.553 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:39:39.554 1 [error] <0.11592.1>@Undefined:Undefined:Undefined
gen_server <0.11592.1> terminated with reason: connection_down
2022-06-27 22:39:39.555 1 [error] <0.11592.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11592.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:39:39.557 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11591.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
```



```
{<<":authority">>,<<"52.30.1.39">>},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}},host => "52.30.1.39",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7016>,socket_mon =>
#Ref<0.155928093.3973578754.186399>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11592.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 22:39:39.558 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11592.1>,connection_down} 2022-06-27
22:39:41.580 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:39:49.556 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:39:49.871 1 [info] <0.11611.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:39:49.873 1 [info] <0.11611.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.11610.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:39:50.176 1 [error] <0.11610.1>@http2_client:handle_settings:822
gen_server <0.11610.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:39:50.177 1 [error] <0.11610.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11610.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:39:50.177 1 [error] <0.11611.1>@Undefined:Undefined:Undefined
gen_server <0.11611.1> terminated with reason: connection_down
2022-06-27 22:39:50.177 1 [error] <0.11611.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11611.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:39:50.178 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11611.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:39:50.178 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:39:50.179 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:39:50.179 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:39:50.180 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11610.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.211.55.217">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7017>,socket_mon =>
#Ref<0.155928093.3973578754.186497>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11611.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:39:50.180 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11611.1>,connection_down}
2022-06-27 22:39:51.711 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:40:00.182 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:40:00.399 1 [info] <0.11614.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:40:00.400 1 [info] <0.11614.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.11613.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
```

```
2022-06-27 22:40:00.612 1 [error] <0.11613.1>@http2_client:handle_settings:822
gen_server <0.11613.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:40:00.614 1 [error] <0.11613.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11613.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:40:00.615 1 [error] <0.11614.1>@Undefined:Undefined:Undefined
gen_server <0.11614.1> terminated with reason: connection_down
2022-06-27 22:40:00.615 1 [error] <0.11614.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11614.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:40:00.616 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11614.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:40:00.616 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:40:00.617 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:40:00.617 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:40:00.619 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.11613.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7018>,socket_mon =>
#Ref<0.155928093.3973578754.186536>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11614.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:40:00.619 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11614.1>,connection_down} 2022-06-27
22:40:01.857 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:40:07.210 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:40:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:40:07.210 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:40:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:40:07.212 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6743,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:40:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:40:10.620 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:40:10.841 1 [info] <0.11617.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:40:10.842 1 [info] <0.11617.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.11616.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:40:11.059 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11617.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:40:11.058 1 [error] <0.11616.1>@http2_client:handle_settings:822
gen_server <0.11616.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:40:11.059 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
```

Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 22:40:11.060 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 22:40:11.060 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:40:11.061 1 [error] <0.11616.1>@http2\_client:handle\_settings:822  
CRASH REPORT Process <0.11616.1> with 0 neighbours crashed with reason: no  
function clause matching http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 22:40:11.061 1 [error] <0.11617.1>@Undefined:Undefined:Undefined  
gen\_server <0.11617.1> terminated with reason: connection\_down  
2022-06-27 22:40:11.062 1 [error] <0.11617.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.11617.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:40:11.065 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11616.1>,{function\_clause,  
[http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,283,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{53,  
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "13.215.29.4",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.7019>,socket\_mon =>  
#Ref<0.155928093.3973578754.186580>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.11617.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}]},

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:40:11.066 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11617.1>,connection_down}
2022-06-27 22:40:12.001 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:40:21.063 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:40:21.384 1 [info] <0.11620.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:40:21.387 1 [info] <0.11620.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.11619.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:40:21.697 1 [error] <0.11619.1>@http2_client:handle_settings:822
gen_server <0.11619.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:40:21.698 1 [error] <0.11619.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11619.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:40:21.699 1 [error] <0.11620.1>@Undefined:Undefined:Undefined
gen_server <0.11620.1> terminated with reason: connection_down
2022-06-27 22:40:21.700 1 [error] <0.11620.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11620.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:40:21.702 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```



```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11620.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:40:21.702 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:40:21.703 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:40:21.703 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:40:21.708 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11619.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7020>,socket_mon =>
#Ref<0.155928093.3973578754.186616>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.11620.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 22:40:21.710 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11620.1>,connection_down} 2022-06-27
22:40:22.137 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:40:31.706 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:40:32.274 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:40:37.215 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:40:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:40:37.216 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:40:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:40:37.218 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6747,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:40:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:40:42.430 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:40:43.294 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112qt3y9cgwhxemSpjac1cEwPnGvwGnauupTozzQs3ynDh43hptT" informed us of
```

our observed address "/ip4/80.77.186.186/tcp/25685"  
2022-06-27 22:40:52.584 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:41:01.710 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{736,13} send  
unary failed: error, {badmatch,{error,timeout}},  
[miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,719}]],  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,467}]],  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[file,"miner\_poc\_grpc\_client\_statem.erl"],{line,221}]],  
{gen\_statem,loop\_state\_callback,11,[file,"gen\_statem.erl"],{line,1203}]],  
{proc\_lib,init\_p\_do\_apply,3,[file,"proc\_lib.erl"],{line,226}]]]  
2022-06-27 22:41:01.710 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:41:01.712 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11622.1>,timeout}  
2022-06-27 22:41:01.713 1 [error] <0.11622.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.11622.1> with 0 neighbours exited with reason:  
timeout in gen\_server:init\_it/6 line 407  
2022-06-27 22:41:02.737 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:41:07.217 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:41:07 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 22:41:07.218 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:41:07 GMT">>,<<"txnb">> => 0}  
2022-06-27 22:41:07.221 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:  
{440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv  
ed=6751,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>  
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:41:07 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 22:41:11.713 1 [info]

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<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.104.32.11":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:41:12.030 1 [info] <0.11661.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:41:12.032 1 [info] <0.11661.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.104.32.11">>,http_connection => <0.11660.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:41:12.340 1 [error] <0.11660.1>@http2_client:handle_settings:822
gen_server <0.11660.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:41:12.342 1 [error] <0.11660.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11660.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:41:12.342 1 [error] <0.11661.1>@Undefined:Undefined:Undefined
gen_server <0.11661.1> terminated with reason: connection_down
2022-06-27 22:41:12.343 1 [error] <0.11661.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11661.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:41:12.345 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11661.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:41:12.345 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:41:12.346 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:41:12.346 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:41:12.348 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11660.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]}],host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7027>,socket_mon =>
#Ref<0.155928093.3974365185.166496>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11661.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}}
2022-06-27 22:41:12.348 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

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in setup state: Type: info, Msg: {'EXIT',<0.11661.1>,connection_down}
2022-06-27 22:41:12.874 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:41:22.349 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:41:22.662 1 [info] <0.11665.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:41:22.663 1 [info] <0.11665.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.11664.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:41:22.970 1 [error] <0.11664.1>@http2_client:handle_settings:822
gen_server <0.11664.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:41:22.972 1 [error] <0.11664.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11664.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:41:22.972 1 [error] <0.11665.1>@Undefined:Undefined:Undefined
gen_server <0.11665.1> terminated with reason: connection_down
2022-06-27 22:41:22.973 1 [error] <0.11665.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11665.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:41:22.973 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11665.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
```

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{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:41:22.973 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:41:22.974 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:41:22.974 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:41:22.976 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11664.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7028>,socket_mon =>
#Ref<0.155928093.3974365185.166771>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11665.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
```

```
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:41:22.976 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11665.1>,connection_down} 2022-06-27
22:41:23.007 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:41:32.977 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:41:33.157 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:41:33.201 1 [info] <0.11668.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:41:33.204 1 [info] <0.11668.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.11667.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:41:33.419 1 [error] <0.11667.1>@http2_client:handle_settings:822
gen_server <0.11667.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:41:33.422 1 [error] <0.11667.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11667.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:41:33.423 1 [error] <0.11668.1>@Undefined:Undefined:Undefined
gen_server <0.11668.1> terminated with reason: connection_down
2022-06-27 22:41:33.424 1 [error] <0.11668.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11668.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```



```
2022-06-27 22:41:33.425 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11668.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 22:41:33.425 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 22:41:33.426 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 22:41:33.427 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 22:41:33.430 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11667.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"52.220.227.216">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7029>,socket_mon =>
#Ref<0.155928093.3973578754.186983>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11668.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:41:33.431 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11668.1>,connection_down} 2022-06-27
22:41:37.223 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:41:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:41:37.224 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:41:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:41:37.226 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6755,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:41:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:41:43.307 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:41:43.430 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:41:43.695 1 [info] <0.11672.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:41:43.697 1 [info] <0.11672.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.11671.1>,>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:41:43.957 1 [error] <0.11671.1>@http2_client:handle_settings:822
gen_server <0.11671.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:41:43.961 1 [error] <0.11671.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11671.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:41:43.961 1 [error] <0.11672.1>@Undefined:Undefined:Undefined
gen_server <0.11672.1> terminated with reason: connection_down
2022-06-27 22:41:43.962 1 [error] <0.11672.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11672.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:41:43.962 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11672.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:41:43.963 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:41:43.964 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:41:43.964 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 22:41:43.967 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11671.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[[{42, {<<"te">>,<<"trailers">>}}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66, {<<"content-type">>,<<"application/grpc+proto">>}},{54, {<<":authority">>,<<"18.230.8.198">>}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]}],host => "18.230.8.198",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.7030>,socket\_mon => #Ref<0.155928093.3974365185.167238>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.11672.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]}]}  
2022-06-27 22:41:43.968 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11672.1>,connection\_down}  
2022-06-27 22:41:53.448 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:41:53.967 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.89.130.114":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:41:54.185 1 [info] <0.11695.1>@grpc\_client\_stream\_custom:init: {131,9} init stream for RPC validators and type unary  
2022-06-27 22:41:54.186 1 [info] <0.11695.1>@grpc\_client\_stream\_custom:init:

```
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.11694.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:41:54.399 1 [error] <0.11694.1>@http2_client:handle_settings:822
gen_server <0.11694.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:41:54.400 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11695.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:41:54.400 1 [error] <0.11694.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11694.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:41:54.400 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:41:54.401 1 [error] <0.11695.1>@Undefined:Undefined:Undefined
gen_server <0.11695.1> terminated with reason: connection_down
2022-06-27 22:41:54.401 1 [error] <0.11695.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11695.1> with 0 neighbours exited with reason:
```

connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:41:54.401 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 22:41:54.402 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:41:54.403 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11694.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"52.89.130.114">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "52.89.130.114",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
>=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.7031>,socket\_mon =>  
#Ref<0.155928093.3974365185.167673>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.11695.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>},{file,"http2\_client.erl"},{line,822}}},  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}}},  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}}},  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}}},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}}]}

2022-06-27 22:41:54.404 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11695.1>,connection\_down}

2022-06-27 22:42:03.594 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833

2022-06-27 22:42:04.405 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send

unary request via new connection to ip "44.229.159.157":

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 22:42:04.626 1 [info] <0.11702.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 22:42:04.628 1 [info] <0.11702.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"44.229.159.157">>,http_connection => <0.11701.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 22:42:04.844 1 [error] <0.11701.1>@http2_client:handle_settings:822
```

```
gen_server <0.11701.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 22:42:04.847 1 [error] <0.11701.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.11701.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 22:42:04.847 1 [error] <0.11702.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.11702.1> terminated with reason: connection_down
```

```
2022-06-27 22:42:04.848 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.11702.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 22:42:04.848 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 22:42:04.848 1 [error] <0.11702.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.11702.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:42:04.849 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 22:42:04.849 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:42:04.852 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11701.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,286,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{56, {<<":authority">>,<<"44.229.159.157">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}]}],host => "44.229.159.157",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.7032>,socket\_mon => #Ref<0.155928093.3974365185.167908>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.11702.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},{file,"http2\_client.erl",{line,822}}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl",{line,648}}], {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl",{line,695}}], {gen\_server,handle\_msg,6,[{file,"gen\_server.erl",{line,771}}], {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl",{line,226}}]}}]}

2022-06-27 22:42:04.853 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11702.1>,connection\_down}



```
2022-06-27 22:42:07.216 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:42:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:42:07.217 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:42:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:42:07.218 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6759,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 1,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:42:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:42:13.734 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:42:14.852 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:42:15.116 1 [info] <0.11705.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:42:15.117 1 [info] <0.11705.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.11704.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:42:15.372 1 [error] <0.11704.1>@http2_client:handle_settings:822
gen_server <0.11704.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:42:15.374 1 [error] <0.11704.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11704.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:42:15.374 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11705.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:42:15.374 1 [error] <0.11705.1>@Undefined:Undefined:Undefined
gen_server <0.11705.1> terminated with reason: connection_down
2022-06-27 22:42:15.374 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:42:15.375 1 [error] <0.11705.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11705.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:42:15.375 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:42:15.375 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:42:15.376 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11704.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
```

```
{<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {54,
{<<":authority">>,<<"18.230.8.198">>}}, {63, {<<":path">>,<<"/helium.gateway/
validators">>}}}], host => "18.230.8.198", last_stream => 1, owner =>
<0.1817.0>, ping_sent => [], port => 8080, server_settings => #{header_table_size
=> 4096, initial_window_size => 65535, low_water_mark =>
16384, max_concurrent_streams => undefined, max_frame_size =>
16384}, server_window => 65528, socket => #Port<0.7033>, socket_mon =>
#Ref<0.155928093.3973316611.235569>, state => open, stream_count =>
1, streams => [{1, #{client_initial_window => 65535, client_window => 65535, id =>
1, owner => <0.11705.1>, server_window => 65528, state =>
half_closed_local, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}, timeout => 3000, transport =>
gen_tcp, window_mgmt_data => undefined, window_mgmt_fun =>
#Fun<http2_client.0.117949056>}, [{file, "http2_client.erl"}, {line, 822}],
{http2_client, handle_packet, 2, [{file, "http2_client.erl"}, {line, 648}]},
{gen_server, try_dispatch, 4, [{file, "gen_server.erl"}, {line, 695}]},
{gen_server, handle_msg, 6, [{file, "gen_server.erl"}, {line, 771}]},
{proc_lib, init_p_do_apply, 3, [{file, "proc_lib.erl"}, {line, 226}]}}]
2022-06-27 22:42:15.377 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT', <0.11705.1>, connection_down} 2022-06-27
22:42:21.727 1 [info] <0.1635.0>@libp2p_group_gossip_server:drop_target:
{619,5} dropping target for peerbook <0.1642.0>
2022-06-27 22:42:23.868 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:42:25.378 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.70.55.231":
{gateway_validators_req_v1_pb, 1}
2022-06-27 22:42:25.446 1 [info] <0.11709.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:42:25.448 1 [info] <0.11709.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>, compression =>
none, connection => #{client => http2_client, host =>
<<"3.70.55.231">>, http_connection => <0.11708.1>, scheme =>
<<"http">>}, encoder => gateway_miner_client_pb, headers_sent => false, input =>
gateway_validators_req_v1_pb, input_stream => false, metadata => #{} , name =>
validators, opts => [], output => gateway_resp_v1_pb, output_stream =>
false, package => [], queue => {[], []}, response_pending => false, rpc =>
validators, service => 'helium.gateway', state => idle, stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:42:25.503 1 [error] <0.11708.1>@http2_client:handle_settings:822
```

```
gen_server <0.11708.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:42:25.504 1 [error] <0.11708.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11708.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:42:25.504 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11709.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:42:25.504 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:42:25.505 1 [error] <0.11709.1>@Undefined:Undefined:Undefined
gen_server <0.11709.1> terminated with reason: connection_down
2022-06-27 22:42:25.505 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:42:25.505 1 [error] <0.11709.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11709.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:42:25.506 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:42:25.508 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11708.1>,{function_clause,
```

```
{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.70.55.231">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.70.55.231",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7034>,socket_mon =>
#Ref<0.155928093.3974365185.168355>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11709.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:42:25.508 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11709.1>,connection_down} 2022-06-27
22:42:34.011 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:42:35.508 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:42:35.766 1 [info] <0.11712.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:42:35.768 1 [info] <0.11712.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.11711.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:42:36.045 1 [error] <0.11711.1>@http2_client:handle_settings:822
gen_server <0.11711.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:42:36.047 1 [error] <0.11711.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11711.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:42:36.047 1 [error] <0.11712.1>@Undefined:Undefined:Undefined
gen_server <0.11712.1> terminated with reason: connection_down
2022-06-27 22:42:36.047 1 [error] <0.11712.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11712.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:42:36.048 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11712.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:42:36.049 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:42:36.049 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:42:36.049 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
```

```
validator failed: {error,req_failed}
2022-06-27 22:42:36.051 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11711.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7035>,socket_mon =>
#Ref<0.155928093.3974365185.168582>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11712.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:42:36.052 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11712.1>,connection_down}
2022-06-27 22:42:37.219 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:42:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:42:37.220 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:42:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:42:37.222 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
```

{440,5} Gateway

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6763,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:42:37 GMT">>,<<"txnb">> =>
```

```
0},rtt_samples=[],rtt=5000000}
```

```
2022-06-27 22:42:44.170 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 22:42:46.052 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
```

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 22:42:46.202 1 [info] <0.11715.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 22:42:46.205 1 [info] <0.11715.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"3.137.92.200">>,http_connection => <0.11714.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 22:42:46.346 1 [error] <0.11714.1>@http2_client:handle_settings:822
gen_server <0.11714.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 22:42:46.347 1 [error] <0.11714.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11714.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 22:42:46.347 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.11715.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```



```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:42:46.347 1 [error] <0.11715.1>@Undefined:Undefined:Undefined
gen_server <0.11715.1> terminated with reason: connection_down
2022-06-27 22:42:46.347 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:42:46.348 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:42:46.348 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:42:46.348 1 [error] <0.11715.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11715.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:42:46.349 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11714.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.137.92.200">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7036>,socket_mon =>
#Ref<0.155928093.3974365185.168825>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11715.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 22:42:46.350 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11715.1>,connection_down}
2022-06-27 22:42:54.324 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:42:56.351 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.207.131.103":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:42:56.616 1 [info] <0.11733.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:42:56.617 1 [info] <0.11733.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.207.131.103">>,http_connection => <0.11730.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:42:56.873 1 [error] <0.11730.1>@http2_client:handle_settings:822
gen_server <0.11730.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:42:56.874 1 [error] <0.11730.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11730.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:42:56.874 1 [error] <0.11733.1>@Undefined:Undefined:Undefined
gen_server <0.11733.1> terminated with reason: connection_down
```

```
2022-06-27 22:42:56.875 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11733.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:42:56.875 1 [error] <0.11733.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11733.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:42:56.875 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:42:56.875 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:42:56.876 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:42:56.877 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11730.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{56,
{<<":authority">>,<<"54.207.131.103">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.207.131.103",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7037>,socket_mon =>
#Ref<0.155928093.3974365185.169191>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11733.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:42:56.877 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11733.1>,connection_down}
2022-06-27 22:43:04.464 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:43:06.491 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 0,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAHw2RJOAJAsAPCAOsLIXBxf6r2aBRS3fBY5N66MW4fdrpyPyCFbiyiSl5
cjGTJR0A==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
-260,<<"freq">> => 868.1,<<"jver">> => 1,<<"lsnr">> => 5.5,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 1,<<"rssi">> => -90,<<"rssi">>
=> -90,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 4057587470]}} from
12291671073248440251 on 35152
2022-06-27 22:43:06.878 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.38.70.101":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:43:07.225 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:43:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:43:07.226 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:43:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:43:07.229 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
```

```
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6767,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:43:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:43:14.611 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:43:24.754 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:43:34.897 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:43:36.881 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:43:36.881 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:43:36.882 1 [error] <0.11771.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11771.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 22:43:36.882 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11771.1>,timeout}
2022-06-27 22:43:37.224 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:43:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:43:37.224 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:43:37 GMT">>,<<"txnb">> => 0}
```

```
2022-06-27 22:43:37.225 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6771,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:43:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:43:45.037 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:43:46.884 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.230.8.198":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:43:47.148 1 [info] <0.11774.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:43:47.150 1 [info] <0.11774.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.230.8.198">>,http_connection => <0.11773.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:43:47.405 1 [error] <0.11773.1>@http2_client:handle_settings:822
gen_server <0.11773.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:43:47.407 1 [error] <0.11773.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11773.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:43:47.409 1 [error] <0.11774.1>@Undefined:Undefined:Undefined
gen_server <0.11774.1> terminated with reason: connection_down
2022-06-27 22:43:47.411 1 [error] <0.11774.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11774.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:43:47.414 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11774.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:43:47.414 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:43:47.416 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:43:47.416 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:43:47.418 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11773.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"18.230.8.198">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.230.8.198",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7041>,socket_mon =>
#Ref<0.155928093.3974365185.170401>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.11774.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,{file,"proc_lib.erl",{line,226}}}}}}
2022-06-27 22:43:47.419 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11774.1>,connection_down}
2022-06-27 22:43:55.184 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:43:57.420 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:43:57.485 1 [info] <0.11779.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:43:57.485 1 [info] <0.11779.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.11778.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:43:57.551 1 [error] <0.11778.1>@http2_client:handle_settings:822
gen_server <0.11778.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:43:57.554 1 [error] <0.11778.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11778.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:43:57.554 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```



```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11779.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:43:57.554 1 [error] <0.11779.1>@Undefined:Undefined:Undefined
gen_server <0.11779.1> terminated with reason: connection_down
2022-06-27 22:43:57.555 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:43:57.555 1 [error] <0.11779.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11779.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:43:57.555 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:43:57.556 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:43:57.559 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11778.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.122.38.248">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
```

```
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7042>,socket_mon =>
#Ref<0.155928093.3973578754.187621>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11779.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:43:57.560 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11779.1>,connection_down} 2022-06-27
22:44:05.325 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:44:07.225 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:44:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:44:07.226 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:44:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:44:07.228 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6775,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:44:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:44:07.559 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:44:07.776 1 [info] <0.11805.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:44:07.778 1 [info] <0.11805.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.11802.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:44:07.985 1 [error] <0.11802.1>@http2_client:handle_settings:822
gen_server <0.11802.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:44:07.986 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11805.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:44:07.986 1 [error] <0.11802.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11802.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:44:07.987 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:44:07.987 1 [error] <0.11805.1>@Undefined:Undefined:Undefined
gen_server <0.11805.1> terminated with reason: connection_down
2022-06-27 22:44:07.987 1 [error] <0.11805.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11805.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

2022-06-27 22:44:07.988 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 22:44:07.988 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:44:07.990 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11802.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096, [{42, {<<"te">>,<<"trailers">>}}, {59, {<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {55, {<<":authority">>,<<"35.82.239.134">>}}, {63, {<<":path">>,<<"/helium.gateway/validators">>}}]},host => "35.82.239.134",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.7043>,socket\_mon => #Ref<0.155928093.3973578754.187825>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.11805.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:44:07.990 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11805.1>,connection\_down} 2022-06-27 22:44:15.464 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833

2022-06-27 22:44:17.991 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "18.228.115.118": {gateway\_validators\_req\_v1\_pb,1}

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2022-06-27 22:44:18.253 1 [info] <0.11808.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:44:18.254 1 [info] <0.11808.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.11807.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:44:18.506 1 [error] <0.11807.1>@http2_client:handle_settings:822
gen_server <0.11807.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:44:18.507 1 [error] <0.11807.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11807.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:44:18.508 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11808.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:44:18.508 1 [error] <0.11808.1>@Undefined:Undefined:Undefined
gen_server <0.11808.1> terminated with reason: connection_down
2022-06-27 22:44:18.508 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 22:44:18.508 1 [error] <0.11808.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11808.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:44:18.508 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:44:18.509 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:44:18.510 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11807.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"18.228.115.118">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7044>,socket_mon =>
#Ref<0.155928093.3973578754.187838>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11808.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:44:18.510 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11808.1>,connection_down} 2022-06-27
22:44:25.617 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
```

```
2022-06-27 22:44:28.511 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.122.38.248":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:44:28.579 1 [info] <0.11811.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:44:28.580 1 [info] <0.11811.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.122.38.248">>,http_connection => <0.11810.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:44:28.642 1 [error] <0.11810.1>@http2_client:handle_settings:822
gen_server <0.11810.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:44:28.646 1 [error] <0.11810.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11810.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:44:28.647 1 [error] <0.11811.1>@Undefined:Undefined:Undefined
gen_server <0.11811.1> terminated with reason: connection_down
2022-06-27 22:44:28.647 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11811.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 22:44:28.648 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:44:28.648 1 [error] <0.11811.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11811.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:44:28.649 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:44:28.649 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:44:28.654 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11810.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.122.38.248">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.122.38.248",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7045>,socket_mon =>
#Ref<0.155928093.3974365185.171434>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11811.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}}
2022-06-27 22:44:28.655 1 [warning]
```



<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11811.1>,connection\_down}  
2022-06-27 22:44:35.778 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:44:37.230 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 22:44:37 GMT">>,<<"txnb">> => 0}} from 12291671073248440251 on 35152  
2022-06-27 22:44:37.230 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 22:44:37 GMT">>,<<"txnb">> => 0}  
2022-06-27 22:44:37.231 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data: {440,5} Gateway  
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,received=6779,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> => 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> => <<"2022-06-27 22:44:37 GMT">>,<<"txnb">> => 0},rtt\_samples=[],rtt=5000000}  
2022-06-27 22:44:38.652 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "3.38.70.101":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:44:41.891 1 [info] <0.11814.1>@libp2p\_transport\_proxy:connect: {38,5} init proxy with ["/p2p/11UanqfCqanGrRDS64zorBSZ9TWkBZCr5egnehuE8AoG3usyLMj","/p2p/112i58n4eyW647vSyGpgwRuxBWB7DQzta77ZaLhPbun6EVjfKWGk"]  
2022-06-27 22:44:41.895 1 [error]  
<0.11814.1>@libp2p\_transport\_proxy:connect\_to:{69,13} failed to dial proxy server "/p2p/11UanqfCqanGrRDS64zorBSZ9TWkBZCr5egnehuE8AoG3usyLMj" not\_found  
2022-06-27 22:44:41.897 1 [warning]  
<0.1639.0>@libp2p\_group\_worker:connecting:{238,5} Failed to connect to "/p2p/112i58n4eyW647vSyGpgwRuxBWB7DQzta77ZaLhPbun6EVjfKWGk": [{"/p2p/11UanqfCqanGrRDS64zorBSZ9TWkBZCr5egnehuE8AoG3usyLMj/p2p-circuit/p2p/112i58n4eyW647vSyGpgwRuxBWB7DQzta77ZaLhPbun6EVjfKWGk",fail\_dial\_proxy}]  
2022-06-27 22:44:45.927 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:44:56.067 1 [info]

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<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:45:06.218 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:45:07.232 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:45:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:45:07.233 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:45:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:45:07.234 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6783,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:45:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:45:08.655 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 22:45:08.655 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:45:08.656 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11813.1>,timeout}
2022-06-27 22:45:08.657 1 [error] <0.11813.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11813.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
2022-06-27 22:45:16.365 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
```

12291671073248440251 on 56833

2022-06-27 22:45:18.658 1 [info]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send unary request via new connection to ip "52.30.111.82":

{gateway\_validators\_req\_v1\_pb,1}

2022-06-27 22:45:18.732 1 [info] <0.11841.1>@grpc\_client\_stream\_custom:init:

{131,9} init stream for RPC validators and type unary

2022-06-27 22:45:18.733 1 [info] <0.11841.1>@grpc\_client\_stream\_custom:init:

{133,9} init stream success with state #{buffer => <<>>,compression =>

none,connection => #{client => http2\_client,host =>

<<"52.30.111.82">>,http\_connection => <0.11840.1>,scheme =>

<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>

gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{}},name =>

validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>

false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>

validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:

miner\_poc\_grpc\_client\_handler

2022-06-27 22:45:18.807 1 [error] <0.11840.1>@http2\_client:handle\_settings:822

gen\_server <0.11840.1> terminated with reason: no function clause matching

http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 22:45:18.810 1 [error] <0.11840.1>@http2\_client:handle\_settings:822

CRASH REPORT Process <0.11840.1> with 0 neighbours crashed with reason: no

function clause matching http2\_client:handle\_settings([], 0,

<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 22:45:18.811 1 [error] <0.11841.1>@Undefined:Undefined:Undefined

gen\_server <0.11841.1> terminated with reason: connection\_down

2022-06-27 22:45:18.812 1 [error] <0.11841.1>@Undefined:Undefined:Undefined

CRASH REPORT Process <0.11841.1> with 0 neighbours exited with reason:

connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:45:18.813 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:

{283,13} Failed to create stream. Type: exit, Error: {connection\_down,

{gen\_server,call,[<0.11841.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,

[{file,"gen\_server.erl"},{line,247}]},

{grpc\_client\_stream\_custom,process\_response,2,

[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,

[{file,"grpc\_client\_custom.erl"},{line,278}]},

{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,

[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},

{miner\_poc\_grpc\_client\_statem,find\_validator,0,

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:45:18.814 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:45:18.816 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:45:18.816 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:45:18.819 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11840.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7051>,socket_mon =>
#Ref<0.155928093.3974365185.172732>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11841.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]]}
```

2022-06-27 22:45:18.820 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11841.1>,connection\_down} 2022-06-27  
22:45:26.504 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5}  
PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:45:28.818 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "3.104.32.11":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:45:29.137 1 [info] <0.11845.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary  
2022-06-27 22:45:29.139 1 [info] <0.11845.1>@grpc\_client\_stream\_custom:init:  
{133,9} init stream success with state #{buffer => <<>>,compression =>  
none,connection => #{client => http2\_client,host =>  
<<"3.104.32.11">>,http\_connection => <0.11844.1>,scheme =>  
<<"http">>},encoder => gateway\_miner\_client\_pb,headers\_sent => false,input =>  
gateway\_validators\_req\_v1\_pb,input\_stream => false,metadata => #{} ,name =>  
validators,opts => [],output => gateway\_resp\_v1\_pb,output\_stream =>  
false,package => [],queue => {[[],[]]},response\_pending => false,rpc =>  
validators,service => 'helium.gateway',state => idle,stream\_id => 1}, handle\_mod:  
miner\_poc\_grpc\_client\_handler  
2022-06-27 22:45:29.451 1 [error] <0.11844.1>@http2\_client:handle\_settings:822  
gen\_server <0.11844.1> terminated with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 22:45:29.453 1 [error]  
<0.11844.1>@http2\_client:handle\_settings:822 CRASH REPORT Process  
<0.11844.1> with 0 neighbours crashed with reason: no function clause matching  
http2\_client:handle\_settings([], 0,  
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => ...,...,...}) line 822  
2022-06-27 22:45:29.454 1 [error] <0.11845.1>@Undefined:Undefined:Undefined  
gen\_server <0.11845.1> terminated with reason: connection\_down  
2022-06-27 22:45:29.454 1 [error] <0.11845.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.11845.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:45:29.455 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.11845.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{"file","gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,

```
{file,"grpc_client_stream_custom.erl",{line,418}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl",{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl",{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]
2022-06-27 22:45:29.455 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:45:29.455 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:45:29.455 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:45:29.457 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11844.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"3.104.32.11">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.104.32.11",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7052>,socket_mon =>
#Ref<0.155928093.3974365185.172970>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11845.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:45:29.457 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11845.1>,connection_down} 2022-06-27
22:45:36.664 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:45:37.231 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:45:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:45:37.231 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:45:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:45:37.232 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6787,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:45:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:45:39.457 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.237.155.172":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:45:39.773 1 [info] <0.11848.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:45:39.774 1 [info] <0.11848.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.237.155.172">>,http_connection => <0.11847.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:45:40.085 1 [error] <0.11847.1>@http2_client:handle_settings:822
```

```
gen_server <0.11847.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:45:40.086 1 [error] <0.11847.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11847.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:45:40.087 1 [error] <0.11848.1>@Undefined:Undefined:Undefined
gen_server <0.11848.1> terminated with reason: connection_down
2022-06-27 22:45:40.087 1 [error] <0.11848.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11848.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:45:40.087 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11848.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:45:40.088 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:45:40.088 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:45:40.088 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:45:40.090 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11847.1>,{function_clause,
```



```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"13.237.155.172">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.237.155.172",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7053>,socket_mon =>
#Ref<0.155928093.3974365185.173212>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11848.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:45:40.090 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11848.1>,connection_down}
2022-06-27 22:45:46.811 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:45:50.091 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.49.199.40":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:45:56.957 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:45:57.645 1 [info] <0.1636.0>@libp2p_peerbook:notify_peers:
{726,5} gossiping out 3 notify peers
2022-06-27 22:46:07.101 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

```
2022-06-27 22:46:07.233 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:46:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:46:07.234 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:46:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:46:07.237 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6791,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:46:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:46:12.663 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11wARf5JiG3b6qZGnbt5RKuVgG89QkVBWN2SqViMABzWVL2A32" informed us
of our observed address "/ip4/80.77.186.186/tcp/55118"
2022-06-27 22:46:17.245 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:46:20.094 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{736,13} send
unary failed: error, {badmatch,{error,timeout}},
[{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,719}]}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]}
2022-06-27 22:46:20.094 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:46:20.095 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11850.1>,timeout}
2022-06-27 22:46:20.096 1 [error] <0.11850.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11850.1> with 0 neighbours exited with reason:
timeout in gen_server:init_it/6 line 407
```

```
2022-06-27 22:46:27.387 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:46:30.097 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:46:30.308 1 [info] <0.11870.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:46:30.310 1 [info] <0.11870.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.11869.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:46:30.520 1 [error]
<0.11869.1>@http2_client:handle_settings:822 gen_server <0.11869.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:46:30.524 1 [error]
<0.11869.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.11869.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:46:30.524 1 [error] <0.11870.1>@Undefined:Undefined:Undefined
gen_server <0.11870.1> terminated with reason: connection_down
2022-06-27 22:46:30.525 1 [error] <0.11870.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11870.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:46:30.527 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11870.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[[file,"grpc_client_custom.erl"],{line,278}]],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 22:46:30.528 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:46:30.529 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:46:30.529 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:46:30.532 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11869.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[[42,
{<<"te">>,<<"trailers">>}],{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}],{66,
{<<"content-type">>,<<"application/grpc+proto">>}],{53,
{<<":authority">>,<<"54.70.239.5">>}],{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7060>,socket_mon =>
#Ref<0.155928093.3974365185.174318>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11870.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[[file,"http2_client.erl"],{line,822}]]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:46:30.533 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11870.1>,connection_down} 2022-06-27
22:46:37.242 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:46:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:46:37.242 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:46:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:46:37.244 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6794,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:46:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:46:37.531 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:46:40.531 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:46:40.752 1 [info] <0.11873.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:46:40.753 1 [info] <0.11873.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.11872.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:46:40.970 1 [error] <0.11872.1>@http2_client:handle_settings:822
gen_server <0.11872.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:46:40.971 1 [error] <0.11872.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11872.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:46:40.972 1 [error] <0.11873.1>@Undefined:Undefined:Undefined
gen_server <0.11873.1> terminated with reason: connection_down
2022-06-27 22:46:40.972 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11873.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:46:40.972 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:46:40.972 1 [error] <0.11873.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11873.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:46:40.973 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:46:40.974 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:46:40.975 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11872.1>,{function_clause,
[{http2_client,handle_settings,
```

```
[[],0,<<0,1,0,0,16,0,0,3,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {55,
{<<":authority">>,<<"13.215.75.202">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7061>,socket_mon =>
#Ref<0.155928093.3974365185.174475>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11873.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 22:46:40.975 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11873.1>,connection_down} 2022-06-27
22:46:47.684 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:46:50.976 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:46:51.041 1 [info] <0.11876.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:46:51.043 1 [info] <0.11876.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.11875.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:46:51.103 1 [error] <0.11875.1>@http2_client:handle_settings:822
gen_server <0.11875.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:46:51.107 1 [error] <0.11875.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11875.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:46:51.107 1 [error] <0.11876.1>@Undefined:Undefined:Undefined
gen_server <0.11876.1> terminated with reason: connection_down
2022-06-27 22:46:51.108 1 [error] <0.11876.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11876.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:46:51.108 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11876.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:46:51.108 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:46:51.109 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:46:51.109 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```



2022-06-27 22:46:51.111 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11875.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.72.143.228">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7062>,socket_mon =>
#Ref<0.155928093.3974365185.174580>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11876.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
```

2022-06-27 22:46:51.112 1 [warning]

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11876.1>,connection_down}
```

2022-06-27 22:46:57.840 1 [info]

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
```

2022-06-27 22:47:01.112 1 [info]

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.1.39":
```

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 22:47:01.188 1 [info] <0.11885.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 22:47:01.191 1 [info] <0.11885.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"52.30.1.39">>,http_connection => <0.11884.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:47:01.420 1 [error] <0.11884.1>@http2_client:handle_settings:822
gen_server <0.11884.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:47:01.421 1 [error] <0.11884.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11884.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:47:01.423 1 [error] <0.11885.1>@Undefined:Undefined:Undefined
gen_server <0.11885.1> terminated with reason: connection_down
2022-06-27 22:47:01.423 1 [error] <0.11885.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11885.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:47:01.424 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11885.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:47:01.425 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:47:01.426 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 22:47:01.426 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:47:01.429 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11884.1>,{function\_clause, [{http2\_client,handle\_settings,

[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>

<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>

4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

{state,0,4096,4096,[]},encode\_state => {state,282,4096,4096,[{42,

{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,

{<<"content-type">>,<<"application/grpc+proto">>}},{52,

{<<":authority">>,<<"52.30.1.39">>}},{63,{<<":path">>,<<"/helium.gateway/

validators">>}}],host => "52.30.1.39",last\_stream => 1,owner =>

<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size

=> 4096,initial\_window\_size => 65535,low\_water\_mark =>

16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

16384},server\_window => 65528,socket => #Port<0.7063>,socket\_mon =>

#Ref<0.155928093.3974365185.174814>,state => open,stream\_count =>

1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>

1,owner => <0.11885.1>,server\_window => 65528,state =>

half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>}],timeout => 3000,transport =>

gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],

{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],

{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],

{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],

{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:47:01.430 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11885.1>,connection\_down}

2022-06-27 22:47:07.245 1 [info]

<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA

#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>

0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>

<<"2022-06-27 22:47:07 GMT">>,<<"txnb">> => 0}} from

12291671073248440251 on 35152

2022-06-27 22:47:07.247 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:

```
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:47:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:47:07.249 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6798,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:47:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:47:07.991 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:47:11.428 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.13.130.184":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:47:11.572 1 [info] <0.11933.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:47:11.573 1 [info] <0.11933.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.13.130.184">>,http_connection => <0.11932.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:47:11.710 1 [error] <0.11932.1>@http2_client:handle_settings:822
gen_server <0.11932.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:47:11.711 1 [error] <0.11932.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11932.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:47:11.712 1 [error] <0.11933.1>@Undefined:Undefined:Undefined
gen_server <0.11933.1> terminated with reason: connection_down
2022-06-27 22:47:11.712 1 [error] <0.11933.1>@Undefined:Undefined:Undefined
```

CRASH REPORT Process <0.11933.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:47:11.713 1 [warning] <0.1817.0>@grpc\_client\_custom:unary:  
{283,13} Failed to create stream. Type: exit, Error: {connection\_down,  
{gen\_server,call,[<0.11933.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3,  
[{file,"gen\_server.erl"},{line,247}]},  
{grpc\_client\_stream\_custom,process\_response,2,  
[{file,"grpc\_client\_stream\_custom.erl"},{line,418}]},{grpc\_client\_custom,unary,6,  
[{file,"grpc\_client\_custom.erl"},{line,278}]},  
{miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]},  
{miner\_poc\_grpc\_client\_statem,find\_validator,0,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]},  
{miner\_poc\_grpc\_client\_statem,setup,3,  
[{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]},  
{gen\_statem,loop\_state\_callback,11,[{file,"gen\_statem.erl"},{line,1203}]},  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}]  
2022-06-27 22:47:11.713 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New  
Connection, send unary result: {error,#{error\_type => client,status\_message =>  
<<"stream create failed">>}}  
2022-06-27 22:47:11.713 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc  
client error response  
2022-06-27 22:47:11.714 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to  
validator failed: {error,req\_failed}  
2022-06-27 22:47:11.715 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.11932.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{54,  
{<<":authority">>,<<"3.13.130.184">>}},{63,<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "3.13.130.184",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>

```
16384},server_window => 65528,socket => #Port<0.7066>,socket_mon =>
#Ref<0.155928093.3974365185.175183>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11933.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]
2022-06-27 22:47:11.715 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11933.1>,connection_down} 2022-06-27
22:47:18.160 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:47:21.715 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:47:21.728 1 [info]
<0.1635.0>@libp2p_group_gossip_server:drop_target:{619,5} dropping target for
peerbook <0.1639.0>
2022-06-27 22:47:21.934 1 [info] <0.11943.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:47:21.937 1 [info] <0.11943.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.11942.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:47:22.501 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11943.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
{file,"miner_poc_grpc_client_statem.erl",{line,721}},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl",{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl",{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl",{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}
2022-06-27 22:47:22.501 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:47:22.502 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:47:22.502 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:47:22.502 1 [error] <0.11942.1>@http2_client:handle_settings:822
gen_server <0.11942.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:47:22.504 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11942.1>,{function_clause,
[{http2_client,handle_settings,
([],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"35.82.239.134">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "35.82.239.134",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7067>,socket_mon =>
#Ref<0.155928093.3974365185.175424>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11943.1>,server_window => 65528,state =>
```

```
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}
2022-06-27 22:47:22.504 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11943.1>,connection_down}
2022-06-27 22:47:22.505 1 [error] <0.11942.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11942.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:47:22.505 1 [error] <0.11943.1>@Undefined:Undefined:Undefined
gen_server <0.11943.1> terminated with reason: connection_down
2022-06-27 22:47:22.506 1 [error] <0.11943.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11943.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:47:28.304 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:47:32.505 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:47:32.760 1 [info] <0.11946.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:47:32.762 1 [info] <0.11946.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.11945.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:47:33.005 1 [error] <0.11945.1>@http2_client:handle_settings:822
gen_server <0.11945.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
```



```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:47:33.006 1 [error] <0.11945.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11945.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:47:33.007 1 [error] <0.11946.1>@Undefined:Undefined:Undefined
gen_server <0.11946.1> terminated with reason: connection_down
2022-06-27 22:47:33.008 1 [error] <0.11946.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11946.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:47:33.008 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11946.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:47:33.008 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:47:33.009 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:47:33.009 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:47:33.010 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11945.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.39.165.144">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7068>,socket_mon =>
#Ref<0.155928093.3974365185.175658>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11946.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:47:33.011 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11946.1>,connection_down} 2022-06-27
22:47:37.239 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:47:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:47:37.240 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:47:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:47:37.242 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6802,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:47:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:47:38.444 1 [info]
```

```
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:47:43.012 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.215.7":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:47:44.086 1 [info] <0.11949.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:47:44.088 1 [info] <0.11949.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.215.7">>,http_connection => <0.11948.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:47:44.151 1 [error] <0.11948.1>@http2_client:handle_settings:822
gen_server <0.11948.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:47:44.153 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11949.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:47:44.153 1 [error] <0.11948.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11948.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:47:44.153 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:47:44.153 1 [error] <0.11949.1>@Undefined:Undefined:Undefined
gen_server <0.11949.1> terminated with reason: connection_down
2022-06-27 22:47:44.154 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:47:44.154 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:47:44.155 1 [error] <0.11949.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11949.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:47:44.156 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11948.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,282,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{52,
{<<":authority">>,<<"3.72.215.7">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.72.215.7",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7069>,socket_mon =>
#Ref<0.155928093.3974365185.175913>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11949.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]}],
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 22:47:44.157 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11949.1>,connection_down} 2022-06-27
22:47:48.594 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:47:54.157 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:47:54.414 1 [info] <0.11952.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:47:54.416 1 [info] <0.11952.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.11951.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:47:54.663 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11952.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 22:47:54.663 1 [error] <0.11951.1>@http2_client:handle_settings:822
gen_server <0.11951.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:47:54.663 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 22:47:54.664 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 22:47:54.664 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:47:54.664 1 [error] <0.11951.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.11951.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...,...}) line 822

2022-06-27 22:47:54.665 1 [error] <0.11952.1>@Undefined:Undefined:Undefined gen\_server <0.11952.1> terminated with reason: connection\_down

2022-06-27 22:47:54.665 1 [error] <0.11952.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.11952.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:47:54.667 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11951.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {54, {<<":authority">>,<<"3.39.165.144">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "3.39.165.144",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.7070>,socket\_mon => #Ref<0.155928093.3974365185.176130>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.11952.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:47:54.667 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11952.1>,connection_down} 2022-06-27
22:47:58.750 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:48:04.667 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.89.130.114":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:48:04.884 1 [info] <0.11960.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:48:04.885 1 [info] <0.11960.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.89.130.114">>,http_connection => <0.11959.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:48:05.097 1 [error] <0.11959.1>@http2_client:handle_settings:822
gen_server <0.11959.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:48:05.098 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11960.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:48:05.098 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:48:05.098 1 [error]
<0.11959.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.11959.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:48:05.099 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:48:05.099 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:48:05.099 1 [error] <0.11960.1>@Undefined:Undefined:Undefined
gen_server <0.11960.1> terminated with reason: connection_down
2022-06-27 22:48:05.099 1 [error] <0.11960.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11960.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:48:05.100 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11959.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.89.130.114">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.89.130.114",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7071>,socket_mon =>
#Ref<0.155928093.3974365185.176438>,state => open,stream_count =>
```



```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11960.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:48:05.101 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11960.1>,connection_down} 2022-06-27
22:48:07.246 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:48:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:48:07.247 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:48:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:48:07.248 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6806,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:48:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:48:08.894 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:48:15.102 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:48:15.178 1 [info] <0.11983.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:48:15.179 1 [info] <0.11983.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.11982.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:48:15.248 1 [error] <0.11982.1>@http2_client:handle_settings:822
gen_server <0.11982.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:48:15.251 1 [error] <0.11982.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.11982.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:48:15.251 1 [error] <0.11983.1>@Undefined:Undefined:Undefined
gen_server <0.11983.1> terminated with reason: connection_down
2022-06-27 22:48:15.252 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11983.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:48:15.252 1 [error] <0.11983.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11983.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:48:15.252 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:48:15.253 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:48:15.253 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:48:15.255 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11982.1>,{function_clause,
[http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7072>,socket_mon =>
#Ref<0.155928093.3974365185.176843>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11983.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:48:15.255 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11983.1>,connection_down} 2022-06-27
22:48:19.034 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:48:25.256 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:48:25.474 1 [info] <0.11991.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:48:25.476 1 [info] <0.11991.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.11990.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:48:25.681 1 [error] <0.11990.1>@http2_client:handle_settings:822
gen_server <0.11990.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:48:25.683 1 [error]
<0.11990.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.11990.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:48:25.684 1 [error] <0.11991.1>@Undefined:Undefined:Undefined
gen_server <0.11991.1> terminated with reason: connection_down
2022-06-27 22:48:25.684 1 [error] <0.11991.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11991.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:48:25.684 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11991.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:48:25.684 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

```
<<"stream create failed">>}}
2022-06-27 22:48:25.685 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:48:25.685 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:48:25.688 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11990.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7073>,socket_mon =>
#Ref<0.155928093.3974365185.177118>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11991.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 22:48:25.688 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11991.1>,connection_down}
2022-06-27 22:48:29.180 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:48:35.687 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

unary request via new connection to ip "3.132.190.192":

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 22:48:35.834 1 [info] <0.11994.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 22:48:35.835 1 [info] <0.11994.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"3.132.190.192">>,http_connection => <0.11993.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 22:48:36.183 1 [error] <0.11993.1>@http2_client:handle_settings:822
```

```
gen_server <0.11993.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 22:48:36.184 1 [error] <0.11993.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.11993.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 22:48:36.184 1 [error] <0.11994.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.11994.1> terminated with reason: connection_down
```

```
2022-06-27 22:48:36.184 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.11994.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}],{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```

```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 22:48:36.185 1 [info]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 22:48:36.185 1 [error] <0.11994.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.11994.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:48:36.185 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 22:48:36.185 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:48:36.187 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11993.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42, {<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66, {<<"content-type">>,<<"application/grpc+proto">>}}},{55, {<<":authority">>,<<"3.132.190.192">>}}},{63,{<<":path">>,<<"/helium.gateway/validators">>}}}],host => "3.132.190.192",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.7074>,socket\_mon => #Ref<0.155928093.3974365185.177367>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.11994.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],[{file,"http2\_client.erl"},{line,822}]}, {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}, {proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]]}}

2022-06-27 22:48:36.187 1 [warning]

<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.11994.1>,connection\_down} 2022-06-27

```
22:48:37.244 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:48:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:48:37.245 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:48:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:48:37.247 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6810,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:48:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:48:39.321 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:48:46.188 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.115.118":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:48:46.448 1 [info] <0.11997.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:48:46.449 1 [info] <0.11997.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.115.118">>,http_connection => <0.11996.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:48:46.702 1 [error]
<0.11996.1>@http2_client:handle_settings:822 gen_server <0.11996.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:48:46.703 1 [error]
```



```
<0.11996.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.11996.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:48:46.704 1 [error] <0.11997.1>@Undefined:Undefined:Undefined
gen_server <0.11997.1> terminated with reason: connection_down
2022-06-27 22:48:46.704 1 [error] <0.11997.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.11997.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:48:46.706 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.11997.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:48:46.706 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:48:46.707 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:48:46.707 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:48:46.708 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11996.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
```

```
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {56,
{<<":authority">>,<<"18.228.115.118">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "18.228.115.118",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7075>,socket_mon =>
#Ref<0.155928093.3974365185.177609>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.11997.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:48:46.709 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.11997.1>,connection_down} 2022-06-27
22:48:49.460 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:48:50.066 1 [info] <0.1662.0>@blockchain_worker:start_sync:
{888,13} new block sync starting with Pid: <0.11999.1>, Ref:
#Ref<0.155928093.3974365185.177690>, Peer: "/p2p/
118iVbTk3Kw7AEFW7yP3wGCGjzvxHofsq74J4giiKaUUvkM2ehK"
2022-06-27 22:48:52.132 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
118iVbTk3Kw7AEFW7yP3wGCGjzvxHofsq74J4giiKaUUvkM2ehK" informed us of
our observed address "/ip4/80.77.186.186/tcp/22714"
2022-06-27 22:48:52.471 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{{<<"chan">> => 2,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAH/oolMAI2SAG7yXbOjDw+/vDMhjls+wwnXVgwQ24POP7SIRCw/
IUijIUoS9rMGw==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
-288,<<"freq">> => 868.5,<<"jver">> => 1,<<"lsnr">> => 5.2,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 1,<<"rssi">> => -87,<<"rssi">>
=> -88,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 108594621}}} from
12291671073248440251 on 35152
2022-06-27 22:48:56.343 1 [info]
```

```
<0.12012.1>@blockchain_sync_handler:handle_data:{132,5} adding sync blocks
[1409926,1409927,1409928,1409929,1409930]
2022-06-27 22:48:56.710 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:48:56.791 1 [info] <0.12016.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:48:56.793 1 [info] <0.12016.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.12015.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:48:56.856 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12016.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:48:56.856 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:48:56.856 1 [error]
<0.12015.1>@http2_client:handle_settings:822 gen_server <0.12015.1> terminated
with reason: no function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:48:56.856 1 [warning]
```

<0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response  
2022-06-27 22:48:56.857 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}  
2022-06-27 22:48:56.857 1 [error] <0.12015.1>@http2\_client:handle\_settings:822 CRASH REPORT Process <0.12015.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822  
2022-06-27 22:48:56.857 1 [error] <0.12016.1>@Undefined:Undefined:Undefined gen\_server <0.12016.1> terminated with reason: connection\_down  
2022-06-27 22:48:56.857 1 [error] <0.12016.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.12016.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:48:56.858 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.12015.1>,{function\_clause, [{http2\_client,handle\_settings, [[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state => {state,0,4096,4096,[]},encode\_state => {state,284,4096,4096,[{42, {<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66, {<<"content-type">>,<<"application/grpc+proto">>}}, {54, {<<":authority">>,<<"52.30.111.82">>}}, {63,{<<":path">>,<<"/helium.gateway/validators">>}}]},host => "52.30.111.82",last\_stream => 1,owner => <0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},server\_window => 65528,socket => #Port<0.7081>,socket\_mon => #Ref<0.155928093.3974365185.177997>,state => open,stream\_count => 1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id => 1,owner => <0.12016.1>,server\_window => 65528,state => half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>}],timeout => 3000,transport => gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun => #Fun<http2\_client.0.117949056>},[{file,"http2\_client.erl"},{line,822}], {http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}]}, {gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}]}, {gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}]}]}

```
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}]}
```

2022-06-27 22:48:56.859 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.12016.1>,connection\_down} 2022-06-27  
22:48:58.988 1 [info] <0.12012.1>@blockchain\_sync\_handler:handle\_data:{142,13}  
Eagerly re-gossiping 1409930  
2022-06-27 22:48:59.613 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:49:00.560 1 [info] <0.12018.1>@blockchain\_txn:validate:{299,5}  
valid: [], invalid: []  
2022-06-27 22:49:00.658 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_payment\_v1  
2022-06-27 22:49:00.710 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_payment\_v2  
2022-06-27 22:49:01.019 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 296 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 22:49:01.132 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 374 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 22:49:01.417 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 397 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 22:49:01.524 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_validator\_heartbeat\_v1  
2022-06-27 22:49:01.569 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 436 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 22:49:01.635 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 86 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:01.663 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:01.691 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:01.718 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:01.746 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:01.784 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:01.837 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:01.867 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:01.890 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 320 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 22:49:01.918 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}

took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:01.957 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:01.993 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:02.028 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:02.058 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:02.087 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 28 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:02.130 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:02.166 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:02.204 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:02.235 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:02.256 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 367 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 22:49:02.294 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:02.320 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 26 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:02.365 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:02.410 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:02.440 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:02.487 1 [info] <0.12025.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:02.599 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 342 ms to absorb blockchain\_txn\_assert\_location\_v2  
2022-06-27 22:49:02.669 1 [info]  
<0.12025.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected  
241 POCs for block height 1409875  
2022-06-27 22:49:02.909 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 31 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:02.963 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:03.031 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:49:03.103 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:03.161 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:03.244 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 83 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:03.321 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:03.380 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:03.416 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 32 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:03.482 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 65 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:03.538 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:03.585 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 43 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:03.665 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 80 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:03.734 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:03.807 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:03.862 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:03.918 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:03.975 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:04.015 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:04.094 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:04.154 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:04.203 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:04.276 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:04.374 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 98 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:04.442 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:49:04.495 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:04.579 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 84 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:04.676 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 96 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:04.768 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 92 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:04.871 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 103 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:04.965 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:05.056 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 91 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:05.118 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:05.191 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:05.262 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:05.337 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 75 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:05.379 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:05.439 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 60 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:05.521 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:05.573 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:05.633 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:05.679 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:05.732 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:05.781 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:05.854 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 73 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:05.948 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 94 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.005 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 56 ms to absorb blockchain\_txn\_poc\_receipts\_v2



2022-06-27 22:49:06.040 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.078 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.122 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.162 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.198 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.234 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 35 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.261 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.316 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 27 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.346 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 29 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.422 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.514 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 92 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.610 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 95 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.678 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.743 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.802 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 55 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.858 1 [info]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{718,9} Send  
unary request via new connection to ip "44.229.159.157":  
{gateway\_validators\_req\_v1\_pb,1}  
2022-06-27 22:49:06.869 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.922 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:06.981 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 59 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:07.026 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:07.078 1 [info] <0.12027.1>@grpc\_client\_stream\_custom:init:  
{131,9} init stream for RPC validators and type unary

```
2022-06-27 22:49:07.079 1 [info] <0.12027.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.12026.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:49:07.098 1 [info] <0.12018.1>@blockchain_txn:absorb:{578,21}
took 72 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:49:07.154 1 [info] <0.12018.1>@blockchain_txn:absorb:{578,21}
took 49 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:49:07.207 1 [info] <0.12018.1>@blockchain_txn:absorb:{578,21}
took 53 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:49:07.249 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:49:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:49:07.249 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:49:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:49:07.251 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6814,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:49:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:49:07.259 1 [info] <0.12018.1>@blockchain_txn:absorb:{578,21}
took 48 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:49:07.292 1 [error]
<0.12026.1>@http2_client:handle_settings:822 gen_server <0.12026.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:49:07.293 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.12027.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:49:07.293 1 [error]
<0.12026.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.12026.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:49:07.293 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:49:07.293 1 [error] <0.12027.1>@Undefined:Undefined:Undefined
gen_server <0.12027.1> terminated with reason: connection_down
2022-06-27 22:49:07.294 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:49:07.294 1 [error] <0.12027.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12027.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:49:07.294 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:49:07.295 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12026.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
```

```
{state,0,4096,4096,[],encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {56,
{<<":authority">>,<<"44.229.159.157">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7082>,socket_mon =>
#Ref<0.155928093.3973316611.237979>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12027.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 22:49:07.296 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12027.1>,connection_down} 2022-06-27
22:49:07.326 1 [info] <0.12018.1>@blockchain_txn:absorb:{578,21} took 63 ms to
absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:49:07.393 1 [info] <0.12018.1>@blockchain_txn:absorb:{578,21}
took 67 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:49:07.444 1 [info] <0.12018.1>@blockchain_txn:absorb:{578,21}
took 51 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:49:07.515 1 [info] <0.12018.1>@blockchain_txn:absorb:{578,21}
took 70 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:49:07.610 1 [info] <0.12018.1>@blockchain_txn:absorb:{578,21}
took 94 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:49:07.658 1 [info] <0.12018.1>@blockchain_txn:absorb:{578,21}
took 48 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:49:07.731 1 [info] <0.12018.1>@blockchain_txn:absorb:{578,21}
took 73 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:49:07.823 1 [info] <0.12018.1>@blockchain_txn:absorb:{578,21}
took 92 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:49:07.926 1 [info] <0.12018.1>@blockchain_txn:absorb:{578,21}
took 103 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:49:08.005 1 [info] <0.12018.1>@blockchain_txn:absorb:{578,21}
took 79 ms to absorb blockchain_txn_poc_receipts_v2
2022-06-27 22:49:08.066 1 [info] <0.12018.1>@blockchain_txn:absorb:{578,21}
```

took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.111 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.148 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 37 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.187 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.220 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.258 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.309 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 50 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.380 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.475 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 92 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.527 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.595 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.681 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 86 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.744 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.774 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 30 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.822 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.867 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 44 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:08.934 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:09.018 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 85 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:09.098 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:09.192 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 93 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:09.244 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:09.282 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 38 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:09.349 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}

took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:09.417 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 68 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:09.484 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 67 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:09.563 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 78 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:09.644 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:09.704 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 57 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:09.748 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:09.766 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5} PULL\_DATA from  
12291671073248440251 on 56833  
2022-06-27 22:49:09.827 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:09.874 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 42 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:09.932 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:10.029 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 96 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:10.095 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 66 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:10.175 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 79 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:10.219 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:10.269 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 49 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:10.316 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 46 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:10.362 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:10.445 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 61 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:10.521 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:10.616 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 95 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:10.690 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 74 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:49:10.762 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 72 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:10.802 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 40 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:10.884 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:10.967 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 83 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:11.063 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 96 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:11.167 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 103 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:11.251 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 85 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:11.326 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 71 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:11.379 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:11.422 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 39 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:11.475 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:11.527 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 48 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:11.588 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 58 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:11.648 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 52 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:11.684 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:11.741 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 53 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:11.796 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 54 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:11.872 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:11.966 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 95 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:12.042 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 76 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:12.120 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 77 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:12.183 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 63 ms to absorb blockchain\_txn\_poc\_receipts\_v2

2022-06-27 22:49:12.289 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 105 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:12.384 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 94 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:12.488 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 104 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:12.570 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 82 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:12.615 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 45 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:12.663 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 47 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:12.736 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 51 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:12.772 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 36 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:12.807 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 34 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:12.877 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 69 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:12.914 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 33 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:12.985 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 70 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:13.087 1 [info] <0.12018.1>@blockchain\_txn:absorb:{578,21}  
took 102 ms to absorb blockchain\_txn\_poc\_receipts\_v2  
2022-06-27 22:49:13.229 1 [info]  
<0.12018.1>@blockchain\_ledger\_v1:process\_poc\_proposals:{2148,21} Selected  
212 POCs for block height 1409926  
2022-06-27 22:49:13.451 1 [error] emulator@Undefined:Undefined:Undefined  
Error in process <0.12018.1> on node 'miner@127.0.0.1' with exit value:  
{badmatch,{error,{error,"Corruption: block checksum mismatch: stored =  
1975174337, computed = 3807013015 in /var/data/blockchain.db/015769.sst offset  
486887 size 514635"}},[{blockchain,save\_block,2,[{file,"blockchain.erl"},  
{line,2535}]},{blockchain,'-add\_block\_/3-fun-0-',5,[{file,"blockchain.erl"},  
{line,1136}]},{blockchain\_txn,unvalidated\_absorb\_and\_commit,4,  
[{file,"blockchain\_txn.erl"},{line,508}]},{blockchain,add\_block\_,3,  
[{file,"blockchain.erl"},{line,1157}]},{blockchain,'-check\_plausible\_blocks/2-  
fun-1-',4,[{file,"blockchain.erl"},{line,2989}]},{lists,foreach,2,[{file,"lists.erl"},  
{line,1342}]},{blockchain,check\_plausible\_blocks,2,[{file,"blockchain.erl"},  
{line,2983}]}}}  
2022-06-27 22:49:13.466 1 [info] <0.1662.0>@blockchain\_worker:handle\_info:  
{673,53} block sync down: normal  
2022-06-27 22:49:13.642 1 [warning]



```
<0.1645.0>@libp2p_group_worker:connecting:{238,5} Failed to connect to "/
ip4/99.80.158.114/tcp/2154": {exit,{normal,{gen_server,call,[<0.11341.1>,open]}}}
2022-06-27 22:49:17.297 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:49:17.447 1 [info] <0.12053.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:49:17.448 1 [info] <0.12053.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.12052.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:49:17.591 1 [error] <0.12052.1>@http2_client:handle_settings:822
gen_server <0.12052.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:49:17.594 1 [error] <0.12052.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.12052.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:49:17.594 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12053.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 22:49:17.595 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:49:17.596 1 [error] <0.12053.1>@Undefined:Undefined:Undefined
gen_server <0.12053.1> terminated with reason: connection_down
2022-06-27 22:49:17.597 1 [error] <0.12053.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12053.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:49:17.597 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:49:17.597 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:49:17.600 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12052.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.137.92.200">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7083>,socket_mon =>
#Ref<0.155928093.3974365185.180712>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12053.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]}]
```

```
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}]}}
2022-06-27 22:49:17.601 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12053.1>,connection_down} 2022-06-27
22:49:19.914 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:49:27.599 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:49:27.674 1 [info] <0.12058.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:49:27.675 1 [info] <0.12058.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.12057.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:49:27.747 1 [error] <0.12057.1>@http2_client:handle_settings:822
gen_server <0.12057.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:49:27.750 1 [error] <0.12057.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.12057.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:49:27.751 1 [error] <0.12058.1>@Undefined:Undefined:Undefined
gen_server <0.12058.1> terminated with reason: connection_down
2022-06-27 22:49:27.752 1 [error] <0.12058.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12058.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:49:27.753 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12058.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[[file,"gen_server.erl"],{line,247}]}],
{grpc_client_stream_custom,process_response,2,
```

```
{file,"grpc_client_stream_custom.erl"},{line,418}}},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}}],
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}}],
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}}],
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}}],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]
2022-06-27 22:49:27.753 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:49:27.754 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:49:27.755 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:49:27.758 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12057.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"52.30.111.82">>}}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7084>,socket_mon =>
#Ref<0.155928093.3974365185.180806>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12058.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
```

```
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:49:27.759 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12058.1>,connection_down}
2022-06-27 22:49:30.058 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:49:32.250 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#<<"chan">> => 0,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"AE4AAPB+1bNwtDIAACBX+YyqHrllCA4=">>,<<"datr">> =>
<<"SF7BW125">>,<<"foff">> => 7249,<<"freq">> => 868.1,<<"jver">> =>
1,<<"lsnr">> => -7.8,<<"mid">> => 8,<<"modu">> => <<"LORA">>,<<"rfch">>
=> 1,<<"rssi">> => -110,<<"rssi">> => -117,<<"size">> => 23,<<"stat">> =>
1,<<"tmst">> => 148388161]}} from 12291671073248440251 on 35152
2022-06-27 22:49:35.504 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
112tuBe9jQzLoMN3MAPjsEkRLgm118XqqDVVYSARADX4JYst67aN" informed us of
our observed address "/ip4/80.77.186.186/tcp/12964"
2022-06-27 22:49:37.251 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:49:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:49:37.252 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:49:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:49:37.256 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6818,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:49:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:49:37.758 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 22:49:37.909 1 [info] <0.12081.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:49:37.911 1 [info] <0.12081.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.12080.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:49:38.054 1 [error]
<0.12080.1>@http2_client:handle_settings:822 gen_server <0.12080.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:49:38.055 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12081.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:49:38.055 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:49:38.056 1 [error]
<0.12080.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.12080.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:49:38.056 1 [error] <0.12081.1>@Undefined:Undefined:Undefined
gen_server <0.12081.1> terminated with reason: connection_down
2022-06-27 22:49:38.057 1 [error] <0.12081.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12081.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:49:38.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:49:38.057 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:49:38.058 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12080.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "3.132.190.192",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7092>,socket_mon =>
#Ref<0.155928093.3974365185.181012>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12081.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:49:38.059 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12081.1>,connection_down}
```

```
2022-06-27 22:49:40.208 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:49:48.060 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:49:48.210 1 [info] <0.12084.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:49:48.212 1 [info] <0.12084.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.12083.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:49:48.356 1 [error]
<0.12083.1>@http2_client:handle_settings:822 gen_server <0.12083.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:49:48.357 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12084.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:49:48.357 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```



```
<<"stream create failed">>}}
2022-06-27 22:49:48.357 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:49:48.357 1 [error]
<0.12083.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.12083.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:49:48.357 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:49:48.358 1 [error] <0.12084.1>@Undefined:Undefined:Undefined
gen_server <0.12084.1> terminated with reason: connection_down
2022-06-27 22:49:48.358 1 [error] <0.12084.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12084.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:49:48.359 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12083.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7093>,socket_mon =>
#Ref<0.155928093.3973578754.190253>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12084.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:49:48.359 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12084.1>,connection_down}
2022-06-27 22:49:50.351 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:49:58.360 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.210.14.128":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:49:58.435 1 [info] <0.12088.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:49:58.437 1 [info] <0.12088.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.210.14.128">>,http_connection => <0.12087.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:49:58.512 1 [error] <0.12087.1>@http2_client:handle_settings:822
gen_server <0.12087.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:49:58.512 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12088.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
{{file,"miner_poc_grpc_client_statem.erl"},{line,221}},
{gen_statem,loop_state_callback,11,{{file,"gen_statem.erl"},{line,1203}}},
{proc_lib,init_p_do_apply,3,{{file,"proc_lib.erl"},{line,226}}}]
2022-06-27 22:49:58.513 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:49:58.514 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:49:58.514 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:49:58.515 1 [error] <0.12087.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.12087.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:49:58.516 1 [error] <0.12088.1>@Undefined:Undefined:Undefined
gen_server <0.12088.1> terminated with reason: connection_down
2022-06-27 22:49:58.517 1 [error] <0.12088.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12088.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:49:58.518 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12087.1>,{function_clause,
[{{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"52.210.14.128">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "52.210.14.128",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7094>,socket_mon =>
#Ref<0.155928093.3974365185.181141>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
```

```
1,owner => <0.12088.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:49:58.519 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12088.1>,connection_down}
2022-06-27 22:50:00.504 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:50:07.249 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:50:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:50:07.249 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:50:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:50:07.250 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6822,dropped=0,status=#<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:50:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:50:08.517 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:50:08.732 1 [info] <0.12091.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:50:08.733 1 [info] <0.12091.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.12090.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{}},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]],response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:50:08.944 1 [error]
<0.12090.1>@http2_client:handle_settings:822 gen_server <0.12090.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:50:08.944 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12091.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:50:08.944 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:50:08.945 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:50:08.945 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:50:08.946 1 [error]
<0.12090.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.12090.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:50:08.947 1 [error] <0.12091.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.12091.1> terminated with reason: connection_down
2022-06-27 22:50:08.948 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12090.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7095>,socket_mon =>
#Ref<0.155928093.3973578754.190643>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12091.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:50:08.949 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12091.1>,connection_down} 2022-06-27
22:50:08.948 1 [error] <0.12091.1>@Undefined:Undefined:Undefined CRASH
REPORT Process <0.12091.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:50:10.640 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:50:18.319 1 [info]
<0.1631.0>@libp2p_transport_tcp:record_observed_addr:{1060,21} peer "/p2p/
11vaxXjCRw5vuHdBvrQmx5Pv2JkYpCGU7CRUsGw6paWdNcEu515" informed us
of our observed address "/ip4/80.77.186.186/tcp/2658"
2022-06-27 22:50:18.948 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "52.220.227.216":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:50:19.167 1 [info] <0.12116.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:50:19.168 1 [info] <0.12116.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.220.227.216">>,http_connection => <0.12115.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:50:19.383 1 [error] <0.12115.1>@http2_client:handle_settings:822
gen_server <0.12115.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:50:19.384 1 [error] <0.12115.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.12115.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:50:19.384 1 [error] <0.12116.1>@Undefined:Undefined:Undefined
gen_server <0.12116.1> terminated with reason: connection_down
2022-06-27 22:50:19.384 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12116.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
```

```
2022-06-27 22:50:19.384 1 [error] <0.12116.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12116.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:50:19.384 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:50:19.385 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:50:19.385 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:50:19.386 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12115.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"52.220.227.216">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.220.227.216",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7101>,socket_mon =>
#Ref<0.155928093.3973578754.190851>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12116.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:50:19.387 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```



```
in setup state: Type: info, Msg: {'EXIT',<0.12116.1>,connection_down} 2022-06-27
22:50:20.797 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:50:29.388 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:50:29.613 1 [info] <0.12134.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:50:29.615 1 [info] <0.12134.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.12133.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:50:29.827 1 [error] <0.12133.1>@http2_client:handle_settings:822
gen_server <0.12133.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:50:29.828 1 [error] <0.12133.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.12133.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:50:29.829 1 [error] <0.12134.1>@Undefined:Undefined:Undefined
gen_server <0.12134.1> terminated with reason: connection_down
2022-06-27 22:50:29.830 1 [error] <0.12134.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12134.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:50:29.831 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12134.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[[file,"miner_poc_grpc_client_statem.erl"],{line,721}]],
{miner_poc_grpc_client_statem,find_validator,0,
[[file,"miner_poc_grpc_client_statem.erl"],{line,467}]],
{miner_poc_grpc_client_statem,setup,3,
[[file,"miner_poc_grpc_client_statem.erl"],{line,221}]],
{gen_statem,loop_state_callback,11,[[file,"gen_statem.erl"],{line,1203}]],
{proc_lib,init_p_do_apply,3,[[file,"proc_lib.erl"],{line,226}]]}
2022-06-27 22:50:29.831 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:50:29.832 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:50:29.832 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:50:29.833 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12133.1>,{function_clause,
[[http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7102>,socket_mon =>
#Ref<0.155928093.3974365185.181751>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12134.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[file,"http2_client.erl"],{line,822}]],
{http2_client,handle_packet,2,[[file,"http2_client.erl"],{line,648}]],
{gen_server,try_dispatch,4,[[file,"gen_server.erl"],{line,695}]],
```

```
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:50:29.834 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12134.1>,connection_down} 2022-06-27
22:50:30.954 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:50:37.253 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:50:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:50:37.254 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:50:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:50:37.255 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6826,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:50:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:50:39.835 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.29.4":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:50:40.055 1 [info] <0.12142.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:50:40.056 1 [info] <0.12142.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.29.4">>,http_connection => <0.12141.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:50:40.271 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12142.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]}],
```

```
{grpc_client_stream_custom,process_response,2,
[{{file,"grpc_client_stream_custom.erl"},{line,418}}],{grpc_client_custom,unary,6,
[{{file,"grpc_client_custom.erl"},{line,278}}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,721}}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,467}}]},
{miner_poc_grpc_client_statem,setup,3,
[{{file,"miner_poc_grpc_client_statem.erl"},{line,221}}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}
2022-06-27 22:50:40.271 1 [error] <0.12141.1>@http2_client:handle_settings:822
gen_server <0.12141.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:50:40.271 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:50:40.272 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:50:40.272 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:50:40.273 1 [error] <0.12141.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.12141.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:50:40.273 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12141.1>,{function_clause,
[{{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
```

```
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"13.215.29.4">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "13.215.29.4",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7103>,socket_mon =>
#Ref<0.155928093.3974365185.181857>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12142.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}}]}]}
2022-06-27 22:50:40.273 1 [error] <0.12142.1>@Undefined:Undefined:Undefined
gen_server <0.12142.1> terminated with reason: connection_down
2022-06-27 22:50:40.274 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12142.1>,connection_down} 2022-06-27
22:50:40.274 1 [error] <0.12142.1>@Undefined:Undefined:Undefined CRASH
REPORT Process <0.12142.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:50:41.090 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:50:50.275 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "18.228.158.83":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:50:50.533 1 [info] <0.12149.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:50:50.535 1 [info] <0.12149.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"18.228.158.83">>,http_connection => <0.12148.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
2022-06-27 22:50:50.788 1 [error] <0.12148.1>@http2_client:handle_settings:822
gen_server <0.12148.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:50:50.790 1 [error] <0.12148.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.12148.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:50:50.792 1 [error] <0.12149.1>@Undefined:Undefined:Undefined
gen_server <0.12149.1> terminated with reason: connection_down
2022-06-27 22:50:50.793 1 [error] <0.12149.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12149.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:50:50.793 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12149.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:50:50.794 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:50:50.795 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:50:50.795 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:50:50.799 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12148.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"18.228.158.83">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}],host => "18.228.158.83",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7104>,socket_mon =>
#Ref<0.155928093.3974365185.181981>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12149.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:50:50.800 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12149.1>,connection_down} 2022-06-27
22:50:51.244 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:51:00.797 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.132.190.192":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:51:00.949 1 [info] <0.12153.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:51:00.951 1 [info] <0.12153.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.132.190.192">>,http_connection => <0.12152.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:51:01.095 1 [error] <0.12152.1>@http2_client:handle_settings:822
gen_server <0.12152.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:51:01.097 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12153.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:51:01.098 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:51:01.099 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:51:01.099 1 [error] <0.12152.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.12152.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:51:01.099 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:51:01.100 1 [error] <0.12153.1>@Undefined:Undefined:Undefined
gen_server <0.12153.1> terminated with reason: connection_down
```



2022-06-27 22:51:01.100 1 [error] <0.12153.1>@Undefined:Undefined:Undefined  
CRASH REPORT Process <0.12153.1> with 0 neighbours exited with reason:  
connection\_down in gen\_server:handle\_common\_reply/8 line 811  
2022-06-27 22:51:01.102 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.12152.1>,{function\_clause,  
[{http2\_client,handle\_settings,  
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>  
<<>>,client\_settings => #{enable\_push => 0,header\_table\_size =>  
4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>  
{state,0,4096,4096,[]},encode\_state => {state,285,4096,4096,[{42,  
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,  
{<<"content-type">>,<<"application/grpc+proto">>}},{55,  
{<<":authority">>,<<"3.132.190.192">>}},{63,{<<":path">>,<<"/helium.gateway/  
validators">>}}]},host => "3.132.190.192",last\_stream => 1,owner =>  
<0.1817.0>,ping\_sent => [],port => 8080,server\_settings => #{header\_table\_size  
=> 4096,initial\_window\_size => 65535,low\_water\_mark =>  
16384,max\_concurrent\_streams => undefined,max\_frame\_size =>  
16384},server\_window => 65528,socket => #Port<0.7105>,socket\_mon =>  
#Ref<0.155928093.3974365185.182237>,state => open,stream\_count =>  
1,streams => [{1,#{client\_initial\_window => 65535,client\_window => 65535,id =>  
1,owner => <0.12153.1>,server\_window => 65528,state =>  
half\_closed\_local>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>}]},timeout => 3000,transport =>  
gen\_tcp>window\_mgmt\_data => undefined>window\_mgmt\_fun =>  
#Fun<http2\_client.0.117949056>],[{file,"http2\_client.erl"},{line,822}],  
{http2\_client,handle\_packet,2,[{file,"http2\_client.erl"},{line,648}],  
{gen\_server,try\_dispatch,4,[{file,"gen\_server.erl"},{line,695}],  
{gen\_server,handle\_msg,6,[{file,"gen\_server.erl"},{line,771}],  
{proc\_lib,init\_p\_do\_apply,3,[{file,"proc\_lib.erl"},{line,226}]}}]}

2022-06-27 22:51:01.103 1 [warning]  
<0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst  
in setup state: Type: info, Msg: {'EXIT',<0.12153.1>,connection\_down} 2022-06-27  
22:51:01.381 1 [info] <0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{350,5}  
PULL\_DATA from 12291671073248440251 on 56833  
2022-06-27 22:51:07.258 1 [info]  
<0.1814.0>@miner\_lora\_light:handle\_udp\_packet:{326,5} PUSH\_DATA  
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>  
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>  
<<"2022-06-27 22:51:07 GMT">>,<<"txnb">> => 0}} from  
12291671073248440251 on 35152  
2022-06-27 22:51:07.259 1 [info] <0.1814.0>@miner\_lora\_light:handle\_json\_data:

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{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:51:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:51:07.260 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6830,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:51:07 GMT">>,<<"txnb">> => 0},rtt_samples=[],rtt=5000000}
2022-06-27 22:51:11.102 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:51:11.317 1 [info] <0.12156.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:51:11.319 1 [info] <0.12156.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.12155.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:51:11.522 1 [error] <0.12155.1>@http2_client:handle_settings:822
gen_server <0.12155.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:51:11.523 1 [error] <0.12155.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.12155.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:51:11.523 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:51:11.524 1 [error] <0.12156.1>@Undefined:Undefined:Undefined
gen_server <0.12156.1> terminated with reason: connection_down
2022-06-27 22:51:11.525 1 [error] <0.12156.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12156.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:51:11.525 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12156.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:51:11.526 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:51:11.526 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:51:11.526 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:51:11.528 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12155.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{56,
{<<":authority">>,<<"44.229.159.157">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7106>,socket_mon =>
```

```
#Ref<0.155928093.3974365185.182313>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12156.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}]
2022-06-27 22:51:11.528 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12156.1>,connection_down} 2022-06-27
22:51:21.528 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.211.55.217":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:51:21.668 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:51:21.843 1 [info] <0.12164.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:51:21.845 1 [info] <0.12164.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.211.55.217">>,http_connection => <0.12163.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:51:22.151 1 [error] <0.12163.1>@http2_client:handle_settings:822
gen_server <0.12163.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:51:22.152 1 [error] <0.12163.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.12163.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:51:22.152 1 [error] <0.12164.1>@Undefined:Undefined:Undefined
gen_server <0.12164.1> terminated with reason: connection_down
2022-06-27 22:51:22.153 1 [error] <0.12164.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12164.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:51:22.153 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12164.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:51:22.153 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:51:22.154 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:51:22.154 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:51:22.157 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12163.1>,{function_clause,
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.211.55.217">>}}},{63,{<<":path">>,<<"/helium.gateway/
```

```
validators">>}}}],host => "13.211.55.217",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7107>,socket_mon =>
#Ref<0.155928093.3974365185.182447>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12164.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:51:22.157 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12164.1>,connection_down} 2022-06-27
22:51:31.824 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:51:32.157 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.72.143.228":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:51:32.223 1 [info] <0.12188.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:51:32.225 1 [info] <0.12188.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.72.143.228">>,http_connection => <0.12187.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:51:32.282 1 [error] <0.12187.1>@http2_client:handle_settings:822
gen_server <0.12187.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:51:32.284 1 [error] <0.12187.1>@http2_client:handle_settings:822
```

CRASH REPORT Process <0.12187.1> with 0 neighbours crashed with reason: no function clause matching http2\_client:handle\_settings([], 0, <<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => ...,...},...}) line 822

2022-06-27 22:51:32.285 1 [error] <0.12188.1>@Undefined:Undefined:Undefined gen\_server <0.12188.1> terminated with reason: connection\_down

2022-06-27 22:51:32.285 1 [warning] <0.1817.0>@grpc\_client\_custom:unary: {283,13} Failed to create stream. Type: exit, Error: {connection\_down, {gen\_server,call,[<0.12188.1>,{rcv,10000},infinity]}}, Stack:[{gen\_server,call,3, [{file,"gen\_server.erl"},{line,247}]}, {grpc\_client\_stream\_custom,process\_response,2, [{file,"grpc\_client\_stream\_custom.erl"},{line,418}]}, {grpc\_client\_custom,unary,6, [{file,"grpc\_client\_custom.erl"},{line,278}]}, {miner\_poc\_grpc\_client\_statem,send\_grpc\_unary\_req,4, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,721}]}, {miner\_poc\_grpc\_client\_statem,find\_validator,0, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,467}]}, {miner\_poc\_grpc\_client\_statem,setup,3, [{file,"miner\_poc\_grpc\_client\_statem.erl"},{line,221}]}, {gen\_statem,loop\_state\_callback,11, [{file,"gen\_statem.erl"},{line,1203}]}, {proc\_lib,init\_p\_do\_apply,3, [{file,"proc\_lib.erl"},{line,226}]]

2022-06-27 22:51:32.285 1 [error] <0.12188.1>@Undefined:Undefined:Undefined CRASH REPORT Process <0.12188.1> with 0 neighbours exited with reason: connection\_down in gen\_server:handle\_common\_reply/8 line 811

2022-06-27 22:51:32.286 1 [info] <0.1817.0>@miner\_poc\_grpc\_client\_statem:send\_grpc\_unary\_req:{730,9} New Connection, send unary result: {error,#{error\_type => client,status\_message => <<"stream create failed">>}}

2022-06-27 22:51:32.286 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:process\_unary\_response:{814,5} grpc client error response

2022-06-27 22:51:32.287 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:find\_validator:{491,21} request to validator failed: {error,req\_failed}

2022-06-27 22:51:32.291 1 [warning] <0.1817.0>@miner\_poc\_grpc\_client\_statem:setup:{368,5} unhandled event whilst in setup state: Type: info, Msg: {'EXIT',<0.12187.1>,{function\_clause, [{http2\_client,handle\_settings, [ [],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer => <<>>,client\_settings => #{enable\_push => 0,header\_table\_size => 4096,initial\_window\_size => 65535,low\_water\_mark => 16384,max\_concurrent\_streams => undefined,max\_frame\_size => 16384},client\_window => 65535,continuation\_data => undefined,decode\_state =>

```
{state,0,4096,4096,[],encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {54,
{<<":authority">>,<<"3.72.143.228">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.72.143.228",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7108>,socket_mon =>
#Ref<0.155928093.3974365185.182776>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12188.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}]}]}
2022-06-27 22:51:32.292 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12188.1>,connection_down}
2022-06-27 22:51:37.250 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:51:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:51:37.250 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:51:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:51:37.251 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6834,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:51:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:51:41.957 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:51:42.290 1 [info]
```



```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:51:42.544 1 [info] <0.12197.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:51:42.545 1 [info] <0.12197.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.12196.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:51:42.794 1 [error] <0.12196.1>@http2_client:handle_settings:822
gen_server <0.12196.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:51:42.795 1 [error] <0.12196.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.12196.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:51:42.796 1 [error] <0.12197.1>@Undefined:Undefined:Undefined
gen_server <0.12197.1> terminated with reason: connection_down
2022-06-27 22:51:42.797 1 [error] <0.12197.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12197.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:51:42.797 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12197.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]],
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:51:42.797 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:51:42.798 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:51:42.798 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:51:42.800 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12196.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7109>,socket_mon =>
#Ref<0.155928093.3974365185.182904>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12197.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}}
2022-06-27 22:51:42.800 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
```

```
in setup state: Type: info, Msg: {'EXIT',<0.12197.1>,connection_down} 2022-06-27
22:51:52.111 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:51:52.800 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.24.161.210":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:51:53.117 1 [info] <0.12204.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:51:53.119 1 [info] <0.12204.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.24.161.210">>,http_connection => <0.12203.1>,scheme =>
<<"http">>,encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:51:53.428 1 [error]
<0.12203.1>@http2_client:handle_settings:822 gen_server <0.12203.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:51:53.430 1 [error]
<0.12203.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.12203.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:51:53.430 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12204.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:51:53.431 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:51:53.431 1 [error] <0.12204.1>@Undefined:Undefined:Undefined
gen_server <0.12204.1> terminated with reason: connection_down
2022-06-27 22:51:53.431 1 [error] <0.12204.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12204.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:51:53.432 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:51:53.432 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:51:53.433 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12203.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.24.161.210">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7110>,socket_mon =>
#Ref<0.155928093.3974365185.182991>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12204.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:51:53.434 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12204.1>,connection_down} 2022-06-27
22:52:02.264 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:52:03.435 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.125.32.225":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:52:03.697 1 [info] <0.12207.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:52:03.699 1 [info] <0.12207.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.125.32.225">>,http_connection => <0.12206.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:52:03.952 1 [error]
<0.12206.1>@http2_client:handle_settings:822 gen_server <0.12206.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:52:03.954 1 [error]
<0.12206.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.12206.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:52:03.954 1 [error] <0.12207.1>@Undefined:Undefined:Undefined
gen_server <0.12207.1> terminated with reason: connection_down
2022-06-27 22:52:03.955 1 [error] <0.12207.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12207.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 22:52:03.956 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12207.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:52:03.956 1 [info]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
```

```
2022-06-27 22:52:03.957 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
```

```
2022-06-27 22:52:03.957 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
```

```
2022-06-27 22:52:03.958 1 [warning]
```

```
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12206.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{55,
{<<":authority">>,<<"13.125.32.225">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "13.125.32.225",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7111>,socket_mon =>
#Ref<0.155928093.3974365185.183084>,state => open,stream_count =>
```

```
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12207.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}],
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}
2022-06-27 22:52:03.959 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12207.1>,connection_down}
2022-06-27 22:52:07.251 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:52:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:52:07.252 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:52:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:52:07.253 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6838,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:52:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:52:12.072 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"rxpk">> => [#{<<"chan">> => 3,<<"codr">> => <<"4/5">>,<<"data">> =>
<<"QDDaAAEhnhMjAlpeAMPSF1tscxok5cjSicZB92WlcO9LT7m+SOBfa2et6drET3P
RNDBMrQ==">>,<<"datr">> => <<"SF12BW125">>,<<"foff">> =>
232,<<"freq">> => 867.1,<<"jver">> => 1,<<"lsnr">> => -5.8,<<"mid">> =>
0,<<"modu">> => <<"LORA">>,<<"rfch">> => 0,<<"rssi">> => -111,<<"rssi">>
=> -117,<<"size">> => 52,<<"stat">> => 1,<<"tmst">> => 308191011]]} from
12291671073248440251 on 35152
2022-06-27 22:52:12.417 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:52:13.960 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
```

unary request via new connection to ip "3.24.161.210":

```
{gateway_validators_req_v1_pb,1}
```

```
2022-06-27 22:52:14.274 1 [info] <0.12210.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```

```
2022-06-27 22:52:14.276 1 [info] <0.12210.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
```

```
none,connection => #{client => http2_client,host =>
```

```
<<"3.24.161.210">>,http_connection => <0.12209.1>,scheme =>
```

```
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
```

```
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
```

```
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
```

```
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
```

```
miner_poc_grpc_client_handler
```

```
2022-06-27 22:52:14.583 1 [error] <0.12209.1>@http2_client:handle_settings:822
```

```
gen_server <0.12209.1> terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 22:52:14.585 1 [error] <0.12209.1>@http2_client:handle_settings:822
```

```
CRASH REPORT Process <0.12209.1> with 0 neighbours crashed with reason: no
```

```
function clause matching http2_client:handle_settings([], 0,
```

```
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
```

```
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...}) line 822
```

```
2022-06-27 22:52:14.585 1 [error] <0.12210.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.12210.1> terminated with reason: connection_down
```

```
2022-06-27 22:52:14.585 1 [error] <0.12210.1>@Undefined:Undefined:Undefined
```

```
CRASH REPORT Process <0.12210.1> with 0 neighbours exited with reason:
```

```
connection_down in gen_server:handle_common_reply/8 line 811
```

```
2022-06-27 22:52:14.586 1 [warning] <0.1817.0>@grpc_client_custom:unary:
```

```
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
```

```
{gen_server,call,[<0.12210.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
```

```
[{file,"gen_server.erl"},{line,247}]},
```

```
{grpc_client_stream_custom,process_response,2,
```

```
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
```

```
[{file,"grpc_client_custom.erl"},{line,278}]},
```

```
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
```

```
{miner_poc_grpc_client_statem,setup,3,
```

```
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
```



```
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}
2022-06-27 22:52:14.586 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:52:14.586 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:52:14.586 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:52:14.588 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12209.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}}},{54,
{<<":authority">>,<<"3.24.161.210">>}}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]}],host => "3.24.161.210",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7112>,socket_mon =>
#Ref<0.155928093.3973578754.192960>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12210.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]}
2022-06-27 22:52:14.588 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12210.1>,connection_down} 2022-06-27
```

```
22:52:21.730 1 [info] <0.1635.0>@libp2p_group_gossip_server:drop_target:
{619,5} dropping target for peerbook <0.1642.0>
2022-06-27 22:52:22.551 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:52:24.588 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "54.70.239.5":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:52:24.799 1 [info] <0.12217.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:52:24.800 1 [info] <0.12217.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"54.70.239.5">>,http_connection => <0.12215.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:52:25.005 1 [error] <0.12215.1>@http2_client:handle_settings:822
gen_server <0.12215.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:52:25.006 1 [error] <0.12215.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.12215.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:52:25.008 1 [error] <0.12217.1>@Undefined:Undefined:Undefined
gen_server <0.12217.1> terminated with reason: connection_down
2022-06-27 22:52:25.009 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12217.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

```
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:52:25.009 1 [error] <0.12217.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12217.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:52:25.009 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:52:25.010 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:52:25.010 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:52:25.012 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12215.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,283,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{53,
{<<":authority">>,<<"54.70.239.5">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "54.70.239.5",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7113>,socket_mon =>
#Ref<0.155928093.3974365185.183231>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12217.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
```

```
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:52:25.012 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12217.1>,connection_down}
2022-06-27 22:52:32.718 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:52:35.013 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.131.232.233":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:52:35.158 1 [info] <0.12243.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:52:35.159 1 [info] <0.12243.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.131.232.233">>,http_connection => <0.12242.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:52:35.297 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12243.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}]
2022-06-27 22:52:35.297 1 [error]
<0.12242.1>@http2_client:handle_settings:822 gen_server <0.12242.1>
terminated with reason: no function clause matching
```

```
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:52:35.297 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:52:35.298 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:52:35.298 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:52:35.298 1 [error]
<0.12242.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.12242.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:52:35.298 1 [error] <0.12243.1>@Undefined:Undefined:Undefined
gen_server <0.12243.1> terminated with reason: connection_down
2022-06-27 22:52:35.299 1 [error] <0.12243.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12243.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:52:35.300 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12242.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"3.131.232.233">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.131.232.233",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7114>,socket_mon =>
```

```
#Ref<0.155928093.3974365185.183575>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12243.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl",{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl",{line,648}}],
{gen_server,try_dispatch,4,[{file,"gen_server.erl",{line,695}}],
{gen_server,handle_msg,6,[{file,"gen_server.erl",{line,771}}],
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl",{line,226}}]}}}
2022-06-27 22:52:35.300 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12243.1>,connection_down} 2022-06-27
22:52:37.258 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:52:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:52:37.259 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:52:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:52:37.260 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6842,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 1,<<"rxnb">> => 1,<<"rxok">> => 1,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:52:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:52:42.867 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:52:45.301 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "13.215.75.202":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:52:45.524 1 [info] <0.12246.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:52:45.527 1 [info] <0.12246.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"13.215.75.202">>,http_connection => <0.12245.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
```

```
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:52:45.738 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12246.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}]
2022-06-27 22:52:45.738 1 [error]
<0.12245.1>@http2_client:handle_settings:822 gen_server <0.12245.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:52:45.738 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:52:45.739 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:52:45.740 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:52:45.741 1 [error] <0.12245.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.12245.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:52:45.742 1 [error] <0.12246.1>@Undefined:Undefined:Undefined
```

```
gen_server <0.12246.1> terminated with reason: connection_down
2022-06-27 22:52:45.743 1 [error] <0.12246.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12246.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:52:45.744 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12245.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[],},encode_state => {state,285,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{55,
{<<":authority">>,<<"13.215.75.202">>}},{63,<<":path">>,<<"/helium.gateway/
validators">>}]}},host => "13.215.75.202",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7115>,socket_mon =>
#Ref<0.155928093.3974365185.183660>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12246.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}}},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}}},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}}},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}}]}}
2022-06-27 22:52:45.746 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12246.1>,connection_down} 2022-06-27
22:52:53.011 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:52:55.743 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.39.165.144":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:52:56.003 1 [info] <0.12266.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
```



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2022-06-27 22:52:56.004 1 [info] <0.12266.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.39.165.144">>,http_connection => <0.12265.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:52:56.255 1 [error]
<0.12265.1>@http2_client:handle_settings:822 gen_server <0.12265.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:52:56.256 1 [error]
<0.12265.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.12265.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:52:56.256 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12266.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:52:56.256 1 [error] <0.12266.1>@Undefined:Undefined:Undefined
gen_server <0.12266.1> terminated with reason: connection_down
2022-06-27 22:52:56.256 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
```

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<<"stream create failed">>}}
2022-06-27 22:52:56.257 1 [error] <0.12266.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12266.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:52:56.257 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:52:56.257 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:52:56.260 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12265.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"3.39.165.144">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}]}]},host => "3.39.165.144",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7120>,socket_mon =>
#Ref<0.155928093.3974365185.183836>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12266.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]}
2022-06-27 22:52:56.261 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12266.1>,connection_down} 2022-06-27
22:53:03.164 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
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2022-06-27 22:53:06.260 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "52.30.111.82":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:53:06.334 1 [info] <0.12269.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:53:06.336 1 [info] <0.12269.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"52.30.111.82">>,http_connection => <0.12268.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:53:06.401 1 [error]
<0.12268.1>@http2_client:handle_settings:822 gen_server <0.12268.1>
terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:53:06.402 1 [error]
<0.12268.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.12268.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...}) line 822
2022-06-27 22:53:06.404 1 [error] <0.12269.1>@Undefined:Undefined:Undefined
gen_server <0.12269.1> terminated with reason: connection_down
2022-06-27 22:53:06.404 1 [error] <0.12269.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12269.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:53:06.404 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12269.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
```

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{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]}
2022-06-27 22:53:06.405 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:53:06.405 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:53:06.406 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:53:06.407 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12268.1>,{function_clause,
[{http2_client,handle_settings,
[[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}},{59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}},{66,
{<<"content-type">>,<<"application/grpc+proto">>}},{54,
{<<":authority">>,<<"52.30.111.82">>}},{63,{<<":path">>,<<"/helium.gateway/
validators">>}}]},host => "52.30.111.82",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7121>,socket_mon =>
#Ref<0.155928093.3974365185.184004>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12269.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}]},timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],[{file,"http2_client.erl"},{line,822}]},
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
```

```
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}
2022-06-27 22:53:06.408 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12269.1>,connection_down} 2022-06-27
22:53:07.256 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{326,5}
PUSH_DATA #{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:53:07 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:53:07.257 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:53:07 GMT">>,<<"txnb">> => 0}
2022-06-27 22:53:07.259 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6846,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:53:07 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:53:13.314 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{350,5} PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:53:16.408 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "44.229.159.157":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:53:16.628 1 [info] <0.12273.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:53:16.630 1 [info] <0.12273.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"44.229.159.157">>,http_connection => <0.12272.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[],[ ]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:53:16.840 1 [error] <0.12272.1>@http2_client:handle_settings:822
gen_server <0.12272.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
```

```
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:53:16.840 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12273.1>,{rcv,10000},infinity]}}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:53:16.840 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:53:16.841 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:53:16.841 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:53:16.842 1 [error] <0.12272.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.12272.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...,...) line 822
2022-06-27 22:53:16.842 1 [error] <0.12273.1>@Undefined:Undefined:Undefined
gen_server <0.12273.1> terminated with reason: connection_down
2022-06-27 22:53:16.842 1 [error] <0.12273.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12273.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:53:16.844 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12272.1>,{function_clause,
[{http2_client,handle_settings,
[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
```

```
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,286,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {56,
{<<":authority">>,<<"44.229.159.157">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "44.229.159.157",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7122>,socket_mon =>
#Ref<0.155928093.3974365185.184203>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12273.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>],[{file,"http2_client.erl"},{line,822}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:53:16.845 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12273.1>,connection_down} 2022-06-27
22:53:23.454 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from 12291671073248440251 on 56833
2022-06-27 22:53:26.843 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "3.137.92.200":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:53:26.987 1 [info] <0.12277.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:53:26.989 1 [info] <0.12277.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"3.137.92.200">>,http_connection => <0.12276.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{},name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:53:27.128 1 [error] <0.12276.1>@http2_client:handle_settings:822
```

```
gen_server <0.12276.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:53:27.128 1 [warning] <0.1817.0>@grpc_client_custom:unary:
{283,13} Failed to create stream. Type: exit, Error: {connection_down,
{gen_server,call,[<0.12277.1>,{rcv,10000},infinity]}}, Stack:[{gen_server,call,3,
[{file,"gen_server.erl"},{line,247}]},
{grpc_client_stream_custom,process_response,2,
[{file,"grpc_client_stream_custom.erl"},{line,418}]},{grpc_client_custom,unary,6,
[{file,"grpc_client_custom.erl"},{line,278}]},
{miner_poc_grpc_client_statem,send_grpc_unary_req,4,
[{file,"miner_poc_grpc_client_statem.erl"},{line,721}]},
{miner_poc_grpc_client_statem,find_validator,0,
[{file,"miner_poc_grpc_client_statem.erl"},{line,467}]},
{miner_poc_grpc_client_statem,setup,3,
[{file,"miner_poc_grpc_client_statem.erl"},{line,221}]},
{gen_statem,loop_state_callback,11,[{file,"gen_statem.erl"},{line,1203}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]]]
2022-06-27 22:53:27.128 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{730,9} New
Connection, send unary result: {error,#{error_type => client,status_message =>
<<"stream create failed">>}}
2022-06-27 22:53:27.129 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:process_unary_response:{814,5} grpc
client error response
2022-06-27 22:53:27.129 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:find_validator:{491,21} request to
validator failed: {error,req_failed}
2022-06-27 22:53:27.129 1 [error] <0.12276.1>@http2_client:handle_settings:822
CRASH REPORT Process <0.12276.1> with 0 neighbours crashed with reason: no
function clause matching http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:53:27.129 1 [error] <0.12277.1>@Undefined:Undefined:Undefined
gen_server <0.12277.1> terminated with reason: connection_down
2022-06-27 22:53:27.130 1 [error] <0.12277.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12277.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
2022-06-27 22:53:27.131 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12276.1>,{function_clause,
```



```
[{http2_client,handle_settings,
[[],0,<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>,24,#{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},client_window => 65535,continuation_data => undefined,decode_state =>
{state,0,4096,4096,[]},encode_state => {state,284,4096,4096,[{42,
{<<"te">>,<<"trailers">>}}, {59,{<<"user-agent">>,<<"grpc-erlang/0.0.1">>}}, {66,
{<<"content-type">>,<<"application/grpc+proto">>}}, {54,
{<<":authority">>,<<"3.137.92.200">>}}, {63,{<<":path">>,<<"/helium.gateway/
validators">>}}}],host => "3.137.92.200",last_stream => 1,owner =>
<0.1817.0>,ping_sent => [],port => 8080,server_settings => #{header_table_size
=> 4096,initial_window_size => 65535,low_water_mark =>
16384,max_concurrent_streams => undefined,max_frame_size =>
16384},server_window => 65528,socket => #Port<0.7123>,socket_mon =>
#Ref<0.155928093.3974365185.184415>,state => open,stream_count =>
1,streams => [{1,#{client_initial_window => 65535,client_window => 65535,id =>
1,owner => <0.12277.1>,server_window => 65528,state =>
half_closed_local>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>}],timeout => 3000,transport =>
gen_tcp>window_mgmt_data => undefined>window_mgmt_fun =>
#Fun<http2_client.0.117949056>},{file,"http2_client.erl"},{line,822}}],
{http2_client,handle_packet,2,[{file,"http2_client.erl"},{line,648}]},
{gen_server,try_dispatch,4,[{file,"gen_server.erl"},{line,695}]},
{gen_server,handle_msg,6,[{file,"gen_server.erl"},{line,771}]},
{proc_lib,init_p_do_apply,3,[{file,"proc_lib.erl"},{line,226}]}}]
2022-06-27 22:53:27.131 1 [warning]
<0.1817.0>@miner_poc_grpc_client_statem:setup:{368,5} unhandled event whilst
in setup state: Type: info, Msg: {'EXIT',<0.12277.1>,connection_down} 2022-06-27
22:53:33.597 1 [info] <0.1814.0>@miner_lora_light:handle_udp_packet:{350,5}
PULL_DATA from
12291671073248440251 on 56833
2022-06-27 22:53:37.132 1 [info]
<0.1817.0>@miner_poc_grpc_client_statem:send_grpc_unary_req:{718,9} Send
unary request via new connection to ip "35.82.239.134":
{gateway_validators_req_v1_pb,1}
2022-06-27 22:53:37.257 1 [info]
<0.1814.0>@miner_lora_light:handle_udp_packet:{326,5} PUSH_DATA
#{<<"stat">> => #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:53:37 GMT">>,<<"txnb">> => 0}} from
12291671073248440251 on 35152
2022-06-27 22:53:37.257 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{439,5} got status #{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">> =>
```

```
0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:53:37 GMT">>,<<"txnb">> => 0}
2022-06-27 22:53:37.258 1 [info] <0.1814.0>@miner_lora_light:handle_json_data:
{440,5} Gateway
#gateway{mac=12291671073248440251,ip={172,17,0,1},port=56833,sent=0,receiv
ed=6850,dropped=0,status=#{<<"ackr">> => 0.0,<<"dwnb">> => 0,<<"rxfw">>
=> 0,<<"rxnb">> => 0,<<"rxok">> => 0,<<"temp">> => 0.0,<<"time">> =>
<<"2022-06-27 22:53:37 GMT">>,<<"txnb">> =>
0},rtt_samples=[],rtt=5000000}
2022-06-27 22:53:37.352 1 [info] <0.12301.1>@grpc_client_stream_custom:init:
{131,9} init stream for RPC validators and type unary
2022-06-27 22:53:37.353 1 [info] <0.12301.1>@grpc_client_stream_custom:init:
{133,9} init stream success with state #{buffer => <<>>,compression =>
none,connection => #{client => http2_client,host =>
<<"35.82.239.134">>,http_connection => <0.12298.1>,scheme =>
<<"http">>},encoder => gateway_miner_client_pb,headers_sent => false,input =>
gateway_validators_req_v1_pb,input_stream => false,metadata => #{} ,name =>
validators,opts => [],output => gateway_resp_v1_pb,output_stream =>
false,package => [],queue => {[[],[]]},response_pending => false,rpc =>
validators,service => 'helium.gateway',state => idle,stream_id => 1}, handle_mod:
miner_poc_grpc_client_handler
2022-06-27 22:53:37.561 1 [error] <0.12298.1>@http2_client:handle_settings:822
gen_server <0.12298.1> terminated with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:53:37.564 1 [error]
<0.12298.1>@http2_client:handle_settings:822 CRASH REPORT Process
<0.12298.1> with 0 neighbours crashed with reason: no function clause matching
http2_client:handle_settings([], 0,
<<0,1,0,0,16,0,0,3,0,0,0,100,0,5,0,0,64,0,0,6,0,0,255,255>>, 24, #{buffer =>
<<>>,client_settings => #{enable_push => 0,header_table_size =>
4096,initial_window_size => ...,...},...}) line 822
2022-06-27 22:53:37.564 1 [error] <0.12301.1>@Undefined:Undefined:Undefined
gen_server <0.12301.1> terminated with reason: connection_down
2022-06-27 22:53:37.566 1 [error] <0.12301.1>@Undefined:Undefined:Undefined
CRASH REPORT Process <0.12301.1> with 0 neighbours exited with reason:
connection_down in gen_server:handle_common_reply/8 line 811
```